Profile of Mr. Markus Hopf Dipl.-Ing. (FH)

Picture:

Overview:

- Dipl.-Ing. (FH) engineer technical science

- Java EE Full Stack Developer

- Certified Professional Scrum Master PSM

- Certified Spring Professional

- Sun Certified Java Programmer

- Sun Enterprise Trainer

- Sun Certified Enterprise Architect

- OMG Certified UML Professional

- IBM Certified XML Professional

Skills:

- System – and Enterprise Consulting

- Java EE Full Stack Developer

- Microservice architecture

- Java, JavaScript, Groovy, ES6, HTML5 und CSS

- Coordination of Projects

- Angular, ReactJs, Wicket Web Development

- Spring, Hibernate

- NodeJs, npm

- Kubernetes, Docker

- Design and Analysis with UML

- Distributed multi-tier applications with JEE / J2EE

- REST API Webservices

- JSP, JSF, Java-Servlets, EJB's

- EAI solutions

- Web applications and E-Commerce architectures

- Courses for IT themes and Programming languages

- Object oriented software development

- Conception and development of Client/Server-Applications

Availability:

In 100% availability projects i can start not before **1. October 2019**.

Location:

Munich or Remote.

Conditions: **95 €** per hour.

Experience since: about 28 years

Birthday: 13.02.68

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Homepage: www.hopf-it.de

Past projects:

Siemens Corporate Entitlement Service - CES

Branche: Security

Referenz: Co. Siemens in München
Contact person Mr. Erik Bergjohann, Mrs. Elena Thiel
http://www.siemens.com

from	06/2018	- 10/2019_	with	16 months

- Architect and Lead Developer
- Implementation of Microservices
- Spring Eureka Multi Instanz Architecture
- REST API Interfaces
- Angular Frontends
- Spring Boot Applications
- Java and JavaScript
- Json and yml
- Groovy Scripts
- Jenkins Release Pipeline with Jenkinsfile

- Maven Multi Module Projects
- DevOps Tasks
- Cloud Foundry
- Artifactory Repository
- Usage of Spring Framework
- Spring Core, Security, MVC
- Spring Cloud Netflix, Eureka, Thymeleaf
- Git and svn Repositories
- Secure svn
- XSS Cross Site Filter for Tomcat
- PKI Infrastructure
- Public Key, private Key communication
- One Time Password - OTP
- Single Sign On - SSO
- Security Assertion Markup Language - SAML
- DirX and LDAP lookup
- Windows Active Directory
- Apache Load balancing
- Tomcat Web Applications
- Shell Script programming
- Migration svn to git
- Introduced Git-flow Workflow
- Sonar for statische Code analyse
- OWASP Security Findings
- Npm and NodeJs
- HTML5, CSS
- Kundenaccounts with Single Sign On
- Authentication / Authorisation
- Segregation Of Duties – SoD
- Agile Story Planung with JIRA
- Smartcard PKI Login
- Secure Coding
- 2-Factor Authentication
- Process definitions
- Coordination and Bug Tracking
- Agile Development with Scrum and Kanban
- Grooming, Planning, Retrospektive
- Remote communication over Circuit
- Project language Englisch
- Partly remote team

Realized with:	Operatingsystems	Windows, Linux
	Database	Oracle, H2, mySQL

	Developmenttools	Visual Studio Code, Eclipse, STS
	Tools	git, svn, bash, Tomcat, Jetty, Entrust, Syncplicity, Splunk, Circuit, STS, Eclipse, Subclipse, LDAP, DirX, X.509, WinSCP, puTTY, puTTYGen, Groovy, SQuirreL, eclEmma, cron jobs, Remedy, repIT, Lucidchart, Postman, ssh, ssl, Oracle, H2, Kanban, DevOps, Mailversand, Swagger, Netflix, Hystrix, Ribbon, Cobertura Code Coverage Report, cacerts, keytool, UML, ant, pageant, PMD, Checkstyle, Findbugs, Spotbugs, Sonar, Fiddler, SiMPL, Yo, npm, node, OWASP, jSoup, JIRA, conceptboard

Financeportal for public financing - PIF

Branch: Bank, Fintech

References Co. Dt. Pfandbriefbank/Capveriant in Munich/Unterschließheim
     Contact person Mr. Benedikt Girz, Mr. Sergiy Barlabanov
     http://www.pfandbriefbank.com
     https://www.capveriant.com

from	11/2017 _ - 05/2018_	with	7 months

- Full Stack Development
- Java Microservices Architectur
- Spring Boot, Spring Data
- Java, JavaScript
- Single Page Application
- Angular Web-development
- RESTful Interface
- Frontend Tests with Protractor
- JUnit Tests with Karma
- Pacet Manager npm
- Node.js non-blocking Runtime Engine
- Distributed Source control with Git
- Azure Cloud solutions
- Automated ARM Templates
- Azure Storage Account
- Azure KeyVault Certificates
- Powershell Azure Scripts
- Setup of VSTS Build Pipeline
- Automated Deployments with VSTS
- VSTS for Tickets/Tacking
- Multilanguage Application
- Automatic E-Mail sending
- SSL/HTTPS Certificates
- YAML and JSON Dataformats

- JSON Web Token JWT
- Security Access Token
- PaaS, SaaS as a Service
- Kubernetes Container based Deployment
- Docker for Container virtualization
- MsSQL Docker Image creation
- Transact-SQL (T-SQL) Scripts
- Daten Migration with Flyway
- Maven Build Management
- DevOps tasks
- Bash shell and Unix Scripts
- Finanzportal for public financing
- Complete new Development with a remote team
- Agile Development with Scrum and Kanban
- Grooming, Planning, Retrospective
- Remote communication over TeamViewer, Skype, Slack
- Project Speach Englisch
- Offshore Team

Realized with:	Operatingsystems	Windows, Linux
	Database	Microsoft SQL Server, H2, HSQL, mySQL
	Developmenttools	Azure, Node.js, bash, npm, Eclipse, IntelliJ
	Tools	IDEA, Visual Studio Code, Angular 5, JavaScript, ES6, EsLint, Java8, Scala, Spring Core, Spring Data, JPA, Hibernate, Mockito, REST, Json, Maven, Notepad++, CSS, sublime, SMTP, logback Logger, Putty, ssh, scp, Skype, Slack, Teams, Ubuntu VM setup, CSRF, Chocolatey Paketmanager, TCPView, MSSQL Server, ARM Automatic Resource Management, ARM Azure Resource Manager, DMA Data Migration Assistant, SSMS SQL Server Management Studio, SSMA SQL Server Migration Assistant, Team Foundation Server (TFS), Visual Studio Team Services (VSTS), Git, Flyway, MsSQL, MySQL, Office365, zeplin.io, Lucidchart, linoit, Typo3 Script Bitnami, PrimeNG Rich UI Web Components, Postman, cURL, ModelMapper, querydsl, Bitnami Matomo/Piwik, Apache FreeMarker, Spring Quartz, GreenMail, ssh, ssl

Logistic for yard management - flow

Branch: Logistic

References   http://www.43gis.com

Co. 43gis in Munich.
Contact person Mr. Torsten Oltmanns, Mr. Clemens Weber

from	03/2017 _ - 10/2017_	with 8 months

- Microservices Architecture
- ReactJs frontend development
- Spring 4 and Java 8 backend development
- Single Page Applikation implementation
- Workflow implementation for Statemachine
- Redux Datastore connection
- REST communication
- Ajax and Promises Callback communication
- NodeJs and npm development
- Websocket Endpoint Messaging
- EsLint for code quality
- implementation of transactional Spring components
- Persistence with Hibernate
- Data migration
- SCM with Git and Gogs
- Unit and integration tests
- Jenkins Build control
- JBoss, Wildfly Application Server
- gradle and Maven build control
- Certified Scrum Master PSM
- Remote teams, Nearshoring
- JIRA, confluence
- Skype, TeamViewer
- asterisk telefon conferences

Realized with: Operatingsystems   Windows, Linux
Database   Oracle
Developmenttools   NodeJs, npm, ReactJS, JavaScript, mocha,
Tools   ES6, JSX, Redux, PhantomJS, Jest, enzyme, sinon, Lerna, karma, Lanterna, EsLint, Java 8, Spring Core, Spring Data, JPA, Hibernate, Mockito, JMX, Git Bash, Gogs (Go Git Service), Jenkins, TeamViewer, REST, Json, Postman, SQLDeveloper, ORACLE, MSSQLServer, iBatis+Liquibase DB Migration, Eclipse Neon, JBoss, Wildfly, Gradle, Maven, artifactory, Visual Studio Code Editor, sublime, Atom, Notepad++, JSP, JQuery, HTML, CSS, OpenLayers, jacoco, Skype, Confluence, JIRA, Jing, Nagios, Bizagi Modeler, Bamboo Paper, XMind Mindmaper, realtimeboard, linoit, Scrum

Vehicle calculator for classic cars

Branch: Insurance

References   http://www.aioinissaydowa.eu
            Co. AIOI in Munich/Ismaning.
            Contact person Mr. Martin Brauner.

from	10/2016 _ - 03/2017 _	with 6 months

- Angular2 frontend development
- Spring backend development
- Development with Java 8 language features
- REST call interface with Promises and Observables
- Asynchron client/server communication with callbacks
- Cross-Origin Resource Sharing (CORS) implementation with Spring
- Protection against Cross Side Scripting (CSRF) with Spring
- Grunt and Maven as Build Tool
- Project modularization in Node.js, npm submodule
- JSON and YAML file formats
- Usage of HTML5 and CSS
- Protractor E2E Tests
- Jasmine Test Framework
- Selenium Web Driver Tests with PhantomJS
- Oracle VirtualBox for Vagrant virtualization
- Migration with Postgre datenbase scripts
- Complete new development in small team
- Tariff calculation of car insurances for end customers
- Customer registration with Double-Opt-in
- Automated E-Mail delivery
- Confluence Jira for communication
- Process model with Scrum Team
- Communication with Test Team

Realized with: Operatingsystems   Windows, Linux
               Database   PostgreSQL
               Developmenttools   Flyway, Mockito, EasyMock, TSLint, Balsamiq,
               Tools   Hibernate, Node.js, npm, Firebug, VS Code,
                                  CSS, HTML5, SonarLint, Spring Data, Spring
                                  Core, Spring Boot, GitHub, Angular2, Apache
                                  Commons, Docker, Vagrant, Jing, JIRA,
                                  Confluence, Json, YAML, SoapUI, Log4j, git,
                                  mvn, SourceTree Git Browser, Nexus, Jenkins,
                                  REST, JPA, DBeaver, PostgreSQL, Eclipse,
                                  STS, Java 8, putty, WinSCP, Notepad++,
                                  subethasmtp

Telephone Number Porting with Java EE

Branch: Telecommunication

References   http://www.consol.de
            Co. ConSol in Munich.
            Contact person Mr. Thomas Michal, Mr Andreas Berger.

from	04/2016 - 10/2016	with	7 months

- EJB backend development
- Webservice REST Client/Server communication
- Angular2 web development with TypeScript
- TypeScript as abstraktion for JavaScript
- Migration von EJB 2.1 nach EJB 3.0
- Spring data for JPA repository access
- TestNG components tests
- Oracle WebLogic Application Server
- Oracle PL/SQL Stored Procedures
- RMI - Remote Method Invocation
- Workflow engine
- MSISDN migration over staging tables
- JavaScript development
- Node.js and npm for packages and modules management
- JPA entity development with EclipseLink
- Java 8 language features
- Jenkins continues integration job administration
- Citrus integrations tests
- Maven multi project profile
- Data migration of mass data
- x.400 gateway and 2MRDB porting
- CORBA Tuxedo connector
- CORBA IDL
- Scrum Master tasks
- Telephone number porting
- Import and export of telephone numbers for prepaid- and postpaid brands
- Starter Pack SIM migration
- Git branching strategies and pull requests
- Atlassian tool suite for communication
- Confluence Jira for processes
- Bugtracking over ClearQuest
- Load-tests
- Realization within a scrum team
- Coordination with domain experts
- Communication with test-team

Realized with: Operatingsystems   Windows, Linux
               Database   Oracle 11
               Developmenttools   Eclipse, IntelliJ
               Tools   Flyway, MyBatis Migration, Mockito, EasyMock,
                                  Hibernate, maven-replacer-plugin, Node.js, npm,

Broccoli Plugin, TypeScript Eclipse Plugin, Firebug, VS Code, SonarLint, TestNG, Spring Data, Atlassian Suite, Bitbucket, Confluence, JIRA, HipChat, ClearQuest, ClearQuest, GitHub, AngularJS, Apache Commons, Docker, Jing, JIRA, Confluence, Json, Log4j, Citrus, git, mvn, ant, Nexus, Jenkins, Oracle WebLogic, SoapUI, REST, JPA, SQLDeveloper, ORACLE, Eclipse, Java 8, putty, WinSCP, Notepad++

Multiple Assembly Planning & Process System - MAPP

Branch: Automotive

References   http://www.gigatronik.de
             Co. Gigatronik in Munich.
             Contact person Mr. Stefan Hanel, Mr. Michael Voitenleitner.

from	09/2015 - 03/2016	with	7 months

- EJB development
- Webservice REST Client/Server communication
- JPA entity development with EclipseLink
- JPA criteria API
- Java 8 language features like Lambdas
- Aspect oriented interceptors
- DB modeling
- Jenkins continues integration job administration
- JUnit Mockito tests and integrationtests
- Maven multi project profile
- Usage of JRebel
- JSON data exchange format
- Data migration
- JavaFx client development
- JavaFx design with scene builder
- Glassfish configuration
- LDAP connection
- SONAR metrics
- FitNesse tests
- Generic realization of MAPP for car production and planning of BMW vehicles
- Part project coordination
- Coordination with domain experts
- Communication with Test-Team
- Organization development meetings
- 'Clean Code' principles
- Implementation and technical realization

- Senior developer
- Scrum Master tasks

Realized with:	Operatingsystems	Windows, Linux
	Database	Oracle 11
	Developmenttools	SezPoz, Apache Commons, Jing, Jersey, Json,
	Tools	Log4j, EclipseLink, MQ, JRebel, mockito, SVN, mvn, FitNesse, Nexus, Jenkins, Sonar, Jubula, Glassfish, REST, JPA, SQLDeveloper, ORACLE, Eclipse, JavaFx, JAutodoc, LDAP, ScenicView, SceneBuilder, Java 8

Online portal for ambulant, medical services - OPAL Web-Application

Branch: Health Insurance

References   http://www.kvb.de
              Co. KVB in Munich. Contact person Mr. Matthias Geiss.

from	09/2012 - 07/2015 _	with	35 months

- Development of the online portal OPAL
- Extension of existing service interfaces
- Spring Core for Dependency Injection
- Spring Web Flow for page navigation
- Spring Restful Webservice implementation
- Spring authentication and authorization
- Browser plausibility with JavaScript
- Buildmanagement with Gradle Buildscript in Groovy
- Continues Delivery with FeatureToggles
- Dynamic configuration of features with Framework 'Togglz'
- Webservice requests with SoapUI
- Agile DB migration with flywayDB
- Programming with Java 7
- Creation of SQL Scripts
- Serverside validation with Rhino Script Engine
- XSLT transformation of data to Sciphox and EHD format
- Further development of the JSP pages
- WebTests with JUnit and Selenium Browser Plugin
- Configuration of Jenkins Jobs for CI, NB and INT environment
- Timeline versioning of business change requests
- Usage of Jenkins plugins
- Configuration of Jenkins Jobs for CI, NB and INT environment
- Usage of Gradle and Maven as build tools
- Release management with maven release plugin
- Assembling and deployment with maven
- Maintainance of data in integration
- Development of ORACLE SQL statements for ABN and Production

- Defining of SQL scripts for DB handover process
- Maintainance of data with PL/SQL scripts
- File exchange formats .json and .yml
- Asynchron processing over ONDES and KV-Connect interface
- Test Driven Development - TDD
- WebTests with JUnit and Selenium browser plugin
- Load Tests of Webservices with SoapUI
- Threading and Web Load-Tests with LoadUIWeb
- Remote access via Secure Shell (SSH) and odin
- Documentation of medical reports in the online portal (OPAL)
- Submission of electronic documentation to the KVB
- Export of data to Sciphox xml format
- Support of the following medical documentations:
- Allergologie, Balneophototherapie, Belastungs-EKG, Darmkrebsberatung, eDMP, DMP-Brustkrebs, Hautkrebsscreening, Koloskopie, Multiple Sklerose, Risikoprävention bei Kinderwunsch, Schmerztherapie, Sonografie Schwangerschaftsvorsorge, Tonsillotomie, Gastroskopie, Onkologie
- New development of medical documentations like Hörgeräte, Molekulargenetik and Sozialpsychiatrie
- Extension of the online documentation OPAL for medicians
- Scrum with Daily Standup and Retrospective

Realized with:	Operatingsystems	Windows 7, Linux
	Database	Oracle 11g
	Developmenttools	J2SE 7, STS - Spring Tool Suite, Kepler Eclipse
	Tools	Java EE IDE for Web Developers, Tomcat 7, Jenkins Flow Plugins, Flyway, WinSCP, putty, Nexus, SONAR, ONDES, KV-Connect, Linux, PdfBox, Lombok, Gradle, Groovy, Spring MVC, SoapUI, Feature Togglz, Secure Shell (SSH), TLS, SSL, Burp Proxy, FoxyProxy, Hamcrest, Confluence, odin, DbSetup, flywayDB, maven release plugin, LoadUIWeb, Java 7, JavaMelody, xml-unit, JDedend, Spring Core, Spring Web Flow, Oracle SQL Developer, EJB 3.1, JPA, CriteriaAPI, SVN, Subclipe, Subversive, Tortoise, Firebug Firefox Addon, Selenium Plugin, Live HTTP headers Firefox Addon, EclEmma Eclpise Addon, CheckStyle, Maven, Tomcat, JUnit, XSLT, HttpUnit, DbUnit, Jenkins, joda-time.jar, jQuery, JavaScript Rhino Engine, JavaScript

Web Wiki/Community Angeln.de (Fishing website)

Branch: Softwarehouse, Startup Company, Printmedia

References   http://www.angeln.de
References   http://www.woont.com
              Co. Woont in Munich. Contact person Mr. Dirk Wermuth.

from	10/2011 - 08/2012	with	11 months

- Complete relaunch in a small team
- Development of a Social-, Community-, Shop- Web-Application
- Implementation of various Web-Applications around www.angeln.de
- Web-Frontend, Shop, Editor and Admin realized as Web-Apps
- Integration of social networking pages, linkage to other Web-Apps of the domain
- Data import with SQL scripts and java importer
- Development with Glassfish, Embedded Glassfish and Embedded Jetty
- Creation of generic, reusage of Ajax Wicket components
- Extensive development of Ajax components for Web 2.0
- Searching and sorting of datatables with Ajax
- Usage of tables with paging navigator and ListView
- Programming of image galleries with DataViews
- Dynamic menus with changing contexts
- Working with Wicket IModel variations like PropertyModel and CompoundPropertyModel
- Layers Design Pattern - Design and call of interfaces to the backend
- Implemention of SEO (Search Engine Optimization) techniques
- Localized URL generation in various languages
- Persistance layer with EJB, JPA and Criteria API
- Geolocating of addresses with EJB Timer Bean
- Google Maps integration with JavaScript Google API
- Bean validation over various layers using JSR 303
- Maintainance of the persistence service
- Schema maintainance and enhancements for the database
- Implementation of image and logo uploads
- Cropping and converting of images with ImageMagick API
- Image converting using im4java API for various web formats
- Usage of Maven Multi Modules with personalized profiles
- CSS adjustments and CSS generation using less compiler
- Bug tracking system OTRS
- Continues integration and nightly build using Jenkins
- Spring Dependency Injection Integration DI
- CSS and JavaScript development and debugging with Firebug plugin for Firefox
- Usage of EclEmma coverage eclipse plugin
- Generic programming using java generics
- Consequent usage of JUnit regressions tests, standard technologies and standard tools for development

Realized with: Operatingsystems   Windows 7, Linux, Ubuntu
                Database   PostgreSQL 9
                Developmenttools   J2SE 6, Eclipse 3.6.2 Helios, Glassfish
                Tools   Embedded, Glassfish 3.1.1, Embedded Jetty
                                    EJB 3.1, JPA, CriteriaAPI, Apache Wicket 1.5,
                                    Eclipse, SVN, Subclipe, Subversive, Firebug

Firefox Addon, Live HTTP headers Firefox Addon, PrefBar Firefox Addon, AnyEdit Eclpise Addon, EclEmma Eclpise Addon, Maven, glassfish, Tomcat, Jetty, JUnit, Selenium, Jenkins, PMD, FindBugs, joda-time.jar, guava.jar, Skype, SQuireL SQL, PostgreSQL DB, gforge, tickspot, MindMap Freeplane, im4java, ImageMagick, GraphicsMagick, jQuery, less, JCrop, OTRS, Facebook, Twitter, YouTube, Google Maps API, fancyBox

JEE Tariff Calculator and Webservice

Branch: insurance
References: http://www.lv1871.de
             Co. LV1871 in Munich. Contact person Mr. Alexander Gold.

from	07/2009 - 07/2011	with	25 months

- Relaunch/Development of the existing Tariff Calculator software with Apache Wicket Framework
- Development/Maintainance of the existing Tariff Calculator software with Apache Struts
- Components with usage of Wicket HTML markup inheritage development
- Development of advanced Gui functionality beyond the Wicket Extensions (like "close button" on tabulators)
- Wicket Ajax component development
- Development of company web based components
- CSS and JavaScript development and diagnosis with Firebug Plugin for Firefox
- Generating of path notation with 'bindgen' utility and @Bindable annotation for type save Wicket ID's
- Extension handler for XStream and Castor marshallers for object to XML generators
- Implementation of the BiPRO insurance webservice standard
- Schema validation and WSDL generation
- Design of complex element inheritance in XSD schemas
- Usage of JAX-WS webservice framework
- JAXB XML marshalling resp. XML serialization to java
- Generic programing because of java generics usage
- Loadtests with SoapUI against the webservice implementation
- Design of the technical and logical validation of the webservice
- Development of various XML namespaces
- Implementation of various insurance tariffs
- Extensions on the existing tariff software
- Maintainance of the productive platform
- PDF generation with Apache FOP
- XSL transformation in several steps up till to printable XSL-FO documents
- Strict validation of XSL templates and XSL-FO elements
- Integration of the printable XSL-FO documents into the webapplication

- Refactoring of the exception handling
- Maintainance of the intranet and Wiki
- Consistent Usage of JUnit regression tests, standard technologies and standard tools for development
- Spring integration
- Usage of Core Spring for better Testing
- Usage of various JEE / J2EE Pattern like SessionFacade, ServiceLayer, Transfer Object Assembler, DTO, DAO, ...
- COBOL *.cpy integration, calls to tariff calculator cores
- Automated XML printjobs
- Implementation of 'lucene' search engine functionality
- Usage of EclEmma Coverage Eclipse Plugin

Realized with: Operatingsystems Windows 7, Windows Vista, Windows XP, Linux, AIX

Database HDB, DB2

Developmenttools J2SE 6.0, Eclipse 3.x, Jetty6, Tomcat6, Live

Tools HTTP headers, Firebug, Citrix, STS, Subversion SVN, CVS, WinSCP, PuTTY, Extreme Planner, Firefox, Opera, Safari, Windows 7, Windows Vista, Windows XP, commons beanutils, xalan Parser, xerces Parser, JUnit, httpUnit, Spring, Bindgen, ant, maven, Jenkins/Hudson Nightly Build Tool, Emma Test Coverage Frameworks, JAX-WS Webservice Framework, SoapUI, UML Enterprise Architect, XMLSyp, Notepad++, Bouncy Castle Cryptography Library, JDom, xstream serialize XML, Apache Struts, Apache Wicket, Apache log4j, Apache FOP, BiPRO, JAXB, WSDSL2Java, cygwin

Smartphone Web and App Development

Branch: Entertainment
References
http://www.androidzoom.com/android_applications/trivial+dice/by_matching
http://www.m.hopf-it.de

from	09/2010 - 10/2010	with	1 month

- Web app Development for Smartphones
- Usage of iui - User Interface (UI) Framework from Google
- Development of the own homepage in mobile format
- Development of a Simple dice which rolls in 2D graphic, if you tap the screen
- Game development: Trivial Dice
- Conception of the layout
- Design of the graphic
- Development of the statemachine
- External event handling
- Consideration of different resolutions

- Testing of various devices with emulator
- JUnitTest suite for the App
- Lite version with reduced feature set
- Pro version with different access rights
- Playing of audio file
- Familiarization with the Anroid SDK and Google iui, JQTouch Framework
- Multi lingual description
- Versioning in Android Market

Realized with:	Operatingsystems	Windows 7
	Database	-
	Developmenttools	J2SE 6.0, Eclipse 3.x, Google iui Framework,
	Tools	JQTouch Framework, Android SDK, Eclipse Plugin, JUnit

JEE Webapplications for Ring Back Tones

Branch: telecom
References   http://www.ect-telecoms.de
          Co. ect-telecoms in Munich. Contact person Mr. Robert Parkes, Mr. Hans Huber, Mr. Ahmed Ferdous.

from	09/2008 - 06/2009	with	10 months

- Creation of web applications with Tomcat, JSP, Spring and Hibernate
- HTTP Authentication with Basic and Spring XwsSecurity method
- Porting respectively migrating the integration layers from Oracle to HSQL database
- Porting of Oracle schemas and data to HSQL database
- Realization of a standalone reference web client as a presentation application
- Implementation of a Soap Services with JAXB to upload binary content
- Configuration of ant scripts and make them runable under LINUX and Windows
- Extension of the Soap core component with new features
- Publishing the new features as web service
- Porting the Codehouse XFire web service architecture to Spring WS respectively Apache CXF Framework
- Mobile Communication over USSD Service Codes and XML-RPC.
- MDA UML transformation to XSD
- XSD schema definition for automatic generation of the model and soap classes
- JAXB XML marshalling respectively XML Serialization to Java
- Basic Apache webserver configuration
- Remote installation and deployment onto customer servers
- Creation of Spring, maven and ant configurations
- Error tracking with Jira as bug tracking system
- Initialization and introduction of Apache Continuum as Nightly Build process, JUnit Tests, Nightly Build, SVN Tags and Branches, measure of test coverage, Intranet Wiki.
- Load tests for Soap web services with soapUI
- jUnit regression tests
- Consequent usage of JUnit regression tests, standard technologies and standard tools in the development
- Team communication and documentation completely in English

Realized with:	Operatingsystems	Windows; Linux
	Database	Oracle, HSQL
	Developmenttools	J2SE 5.0, GIMP PictureEditor, ColorZilla
	Tools	Colorpicker, FireFTP, Notepad++, Cygwin, HSQL, ORACLE10g, Eclipse 3.4, Tomcat5.5, Live HTTP headers, SQuirreL DBViewer, SQLDevelper, SQLPlus, DbVisualizer, VNC, 7-Zip, Tortoise, Subversion SVN, WinSCP, PuTTY, Jira Bugtracking, Clearspace, Thunderbird, Firefox, Ace WINScreen, Windows XP, Linux Ubunto, Spring, Hibernate, ehcache, OSGi, commons, myfaces, xalan, xerces, JUnit, httpUnit, ant, maven, Codehouse XFire, Apache CXF, XML-RPC, redstone XML-RPC library, GSM Services, EMF (Eclipse Modelling Framework), GMF (Graphical Modelling Framework), SOAP, Spring WebService, jstl, acegi security, JavaScript, JavaScript Debugger Venkman, clover and emma test coverage Frameworks, Apache CXF Webservice framework, soapUI, UML Enterprise Architect, StarUML

J2EE accounting system for health insurance (nPROD)

Branch: health insurance
References   http://www.azh.de
            Co. VSA/azh in Munich. Contact person Mr. Weber, Mr. Herrmann.

| from | 04/2006 | - | 08/2008 | with | 28 months |

- New product development of an automatic accounting system for health- and auxiliary material
- Analysis and design with UML 2.1
- Requirement analysis and review with buisness and domain experts
- Use Case description with the CASE Tool MagicDraw
- MDA usage for the persistance layer
- Usage of a persistence framework (Marvin) for the modelling of the DB
- Modelling of GUI workflows with the CASE Tool MagicDraw
- Usage of a GUI workflow framework
- SWING masks with GidBagLayout
- Extensive usage of CVS (Tagging, Branching, Merging)
- Rule based approach for frequently changing requirements
- Migration of the project to the Spring application framework
- Migration of the existing data to the new structure using CSV files
- Adaptation of the data structures for the data import
- Data import from ABDA pharmacy position data
- Electronic data exchange (DTA) with health insurance company
- JUnit-Tests for the buisness logic and the GUI
- Quality ensured with 80% JUnit test coverage and CheckStyle coding conventions
- Maintainance and rollout
- Attendance of the project from begining to the end (product version 1.0)

- Incrementell approach on database changes with update scripts
- Practical experience with a reference database
- Automatic price calculation for diverse health insurance funds in southern germany
- Tasks: master data, price calculation, prescription position management, master agreement, DTA key management.
- Development of an account software nPROD for automatic recipe prosessing.
- Communication with an understaffed domain department.
- Quality enhancement with cupling- and dependency metrics

Realized with:	Operatingsystems	Windows
	Developmenttools	J2SE 5.0, Eclipse 3.3, Jbossrules, Drools Regel-Engine, RuleEngine, Castor as XML Mapper, Clover for Testcoverage, JUnit for Programtests, CheckStyle, ANTLR (ANother Tool for Language Recognition) Parser Generator, Ant, JReport Presentationtool/FOP, Marvin proprietary Persistence Framework and Spring Persistence Framework 2.0, GUI Workflow Framework, IntelliJ 4.5, Jboss 4, MagicDraw 14, DB2-Client 7.2.0, Citrix Emulator, DBVisualiser, Toad, Sqirrel, SQL Workbench, WinCVS 2.0, TortoiseCVS, Firefox, Thunderbird, Nvu (Html-Editor), cygwin Unix Emulator, PuTTY, WinSCP
	Tools	

J2EE WebShop

Branch: eCommerce
References   http://www.publicWEBshop.com

| from | 12/2005 | -02/2006 | with | 3 months |

- Webapplication to run an online web shop.
- Generic webshop for all kinds of businesses.
- Freely configuratable with many settings and preferences.
- JSF Technologie, Apache MyFaces/Tomahawk .
- Axis WebService JAX-RPC interface for B2B SOAP communication.
- EJB, JSP and Servlets.
- Struts and tiles.
- Apache Commons.
- AJAX asynch. communication on the client tier.
- Object persistance with Hibernate.
- Struts and tiles.
- Logging with Log4j.
- JavaScript and cascading stylesheets (CSS).
- Planning and maintaining of a MySql database.
- UML analysis and design.
- XML for configuration files.
- Multilingual for international purpose.
- HTML, XHTML and Flash as presentation technique.
- Tests with Jakarta JMeter and JUnit.
- Future: XSLT and XSL-FO for PDF generation.
- Future: EJB/JBoss/Spring.

| Realized with: | Operatingsystems | Windows, Linux |
| | Developmenttools | Eclipse 3.1, Enterprise Architect, XMLSpy |

Tools	Enterprise Edition, JBoss, Tomcat 5.5, Struts, Ant, JUnit, Macromedia Flash and Dreamweaver, div. Eclipse Plugins, MySQL 5

Trainings and Consulting.

Branch: All areas
References   here are the biggest componies:

> Co. SUN Micosystems in Munich. Contact person Mr. Hettmannsberger.
> Co. Accenture in Munich. Contact person Mrs. Steffen.
> Co. Hilf in Oberhaching/ Munich. Contact person Mr. Hilf.
> Co. AS Systeme in Stuttgart. Contact person Mr. Buehler.
> Co. Tria in Munich.

from	04/2004	- 11/2005	with	19 months

- J2EE
- EJB, JSP and Servlets.
- Java , SWING.
- Webapplications.
- EAI integration with differant interfaces.
- Message queue connetions over JMS api.
- Webservices and SOAP.
- JAX-RPC.
- UML analysis and design.
- XML and XSLT.
- J2EE and GOF design pattern.
- UML for embedded systems.
- OOAD object oriented techinques.
- XML and XSLT.
- Xalan and Xerces parser event processing.
- Developing of course scripts.
- Englisch courses.

Realized with:	Operatingsystems	Windows, UNIX Solaris
	Developmenttools Tools	Eclipse 3.0, NetBeans, JBuilder, Rational XDE and Rose 7.5, Together Controll Center, Poseidon, Enterprise Architect,, XMLSpy Enterprise Edition 2006, SUN ONE, BEA, JBOSS, Tomcat, Struts, Ant, JUnit, XDoclet, div. Eclipse Plugins, JAD Decompiler, Obfuscation, Xalan and Xerces Parser, Pointbase, MySQL, Cloudscape

Java-COM Bridge over JNI.

Branch: Insurance
References   Kassenärztliche Vereinigung Bayern (KVB) in Munich.
Contact person Mr Dietl.

from	02/2004	- 03/2004	with	2 months

- Refactoring and Reengeniering of an existing JNI Interface.
- Java Native Interface (JNI)..
- Realisation with java and C++.
- Analysis and design of the existing interfaces.

- Changing the interfaces from synchron to asynchron.
- Design of the asynchronous communication model .
- UML analysis and design.
- Use of GOF design pattern .
- J2EE integration of JBoss with MS Office.
- JNI API for distributed objects, realised in C++.
- ANSI C and C++.
- Documentation.
- Consulting and project leadership.
- Coaching of the employees.

Realized with:	Operatingsystems	Windows XP
	Developmenttools	JNI, COM, Visual C++ 6.0, Eclipse 3.0, JBoss,
	Tools	Centro and JACOB JNI Tool

Consulting, Trainings and Courses.

Branch: All areas
References   here are the biggest componies:
  Co. SUN Micosystems in Munich. Contact person Mr. Hettmannsberger.
  Co. Soluzione in Munich. Contact person Mr. Roda.
  Co. Hilf in Oberhaching/ Munich. Contact person Mr. Hilf.
  Co. New Horizon in Hamburg. Contact person Mrs. Schmitt.
  Co. Bosch in Lohr and Hildesheim.
  Co. Amatech in Germering.

| from | 10/2001 | -01/2004 | with | 27 months |

- J2EE
- Workshops for the whole Java certification program.
- Java Workshop.
- Webapplications and E-Commerce architectures.
- EJB, JSP and Servlets.
- C#.
- UML analysis and design.
- XML and XSLT.
- Microsoft MCSD courses.
- ASP and .NET.
- ANSI C and C++.
- Using modern presentationtools.
- Developing of course scripts.
- Englisch courses.

Realized with:	Operatingsystems	Windows, UNIX
	Developmenttools	Visual Studio 6.0, Eclipse, NetBeans, JBuilder,
	Tools	Rational XDE and Rose 7.5, Together Controll
		Center6, .NET, SQL Server, XMLSpy, SUN ONE,
		BEA, JBOSS

Internet application for an billingsystem.

Branch: Bank, Billingsystem
References: Co. Landeszentralbank (LZB) Bayern in Munich. Contact person Mr. Stuckmann.

| from | 05/2000 | -09/2001 | with | 17 months |

- Analysis and design with UML and Rational Rose.

- Refactoring, Reengeneeing of UML Modells, realised with Java and C++.
- Generic modelling with RUP. Generation of artifacts.
- JavaBeans and serverside Enterprise JavaBeans development.
- XML documents with Schema spezification.
- JSP pages and Java Servlets development.
- Java Script programing for all browsers.
- Webapplications and Webcomponents.
- JSP Engine configuration and support.
- C++ Framework development with STL.
- JNI API for destributet objects in C++.
- Crypt with Legacy Systems from RSA and PKI.
- Webserver IPlanet and IIS configuration and administration.
- Complex SQL-Queries.
- SWIFT SIPN and InterActBrowse connection.
- SWIFT Webstation support and configuration.
- Performant PL/SQL-prozedures.
- Administration of ORACLE database.
- Team-Software development with versioning-software Merlin.

Realized with:	Operatingsystems	Windows NT 4.0, IIS WebServer
	Developmenttools	Visual C++ 6.0, JBuilder 3.5
	JSP Engines	Apache TomCat, Allaire JRun 3.1
	Databases	ORACLE 8.x, DB2
	Emulations, Tools	Rational Rose 7.5, Telnet, FTP, SQL-ODBC-Viewer, SWIFT Webstation
	Interfaces	JNI, XML, SWIFT-SIPN

Administration and support of a Stock-Trayding and Portfolio-System.

Branch: Bank, Stock
References: Co. FMIS - Hypovereinsbank in Munich. Contact person Mrs Sterr.

from	02/99	-	03/2000	with	13 months

- Administration of stock transactions.
- Developing of ORACLE databaseprocedures.
- Coordination of projects.
- Stockorder validation: orderentrance, routing to the stock markets and protocolling in ORACLE databases.
- Developing of automatic flows to store new customers.
- Implementing and coordination of the „Erträgnisaufstellung/Jahressteuerbescheid".
- Objectoriented interfaceprograming to BossCube and Xetra
- Interfaceprograming between UNIX and AS400.
- Objectoriented progaming of Stockedit GUI's.
- Complex SQL-Queries.
- Performante PL/SQL-prozedures.
- Support of Windows programs for Broker-Controlling.
- Support of Customerdata.
- Administration of emmisionen.
- Daily Stockbuisness.
- Year 2000 exchange.
- 32 Bit exchange.

Realized with:	Operatingsystems	Windows NT 4.0, UNIX Sun Solaris
	Developmenttools	Visual C++ 5.0, Centura SQLWindows 1.5
	Databases	ORACLE 8.x, 7.x, SQLBase
	Emulations, Tools	Hostlink, Unixlink, Telnet, FTP, SQLTalk, SQLPlus.
	Interfaces	BossCube, Xetra.

Developing an Internet-Applet for Credit Scoring.
Branch: Finance and Insurance
References: Co. NSE in Munich. Contact person Mr. F. Nerb.

from	05/98	-	02/99	With	10 months

- Internet Applet and Server for a Bausparkasse.
- Client/Server application for usage within WWW.
- Customerown objectoriented classlibrary (ROI -> CORBA-subamount).
- Middleware and IDL programing
- Tests with all Internet-browsers, versions and plattforms.
- Bauspar-calculatingcore and surfaces
- Teamprograming (Sourceadmin).
- Databaseadmin, access to ISAM databases.
- Develpoing of objectoriented GUI user interfaces.
- Printing over DDE interface (Reportdesigner).
- Documentation.

Realized with:	Operationsystems	Windows NT 4.0
	Development tools	Java 1.1 and Visual C++ 5.0
	Databases	ISAM Database
	Tools, Libraries	ROI, Middelware, Customerown objectoriented Classlibrary, Internet

Developing a database-admin-program.
Branch: Softwarehouse

from	01/98	-	04/98	with	4 months

- Spezification of the Softwarefeatures.
- Support and admintools for Access database.
- Developing of GUI user Interfaces.
- Database administration over ODBC and RDO.
- MS DAO interface with JetEngine.
- SQL query language.
- Documentation.

Realized with:	Operatingsystems	Windows NT 4.0
	Developmenttools	Visual Basic 5.0
	Databases	Access 7.0
	Tools, Libraries	MS-JetEngine, DAO, RDO, ODBC, InstallShield, MSDN

Installation of Network.
Branch: Advertising
References: Co. MPS in Munich. Contact person Mr. Hunsinger.

from	11/97	-	12/97	with	2 months

- Planning and installation of a Windows Network (5 PC's).
- Connection protocol NetBUI and Ethernet 10 MBit.
- Using a Networkhub.

- Installation of Internetaccounts.

| Realized with: | Operationsystems | Windows 95, Windows NT Server 4.0. |
| | Technique | RJ 45 twisted pair wires. |

Programing of customer spezific softwaresolutions.

Branch: Lasertechnique
References: Co. Baasel in Starnberg. Contact person Mr. Wutz.

| from | 03/96 | - | 11/97 | with | 21 months |

- Spezifications of the Softwarefeatures.
- Customervisits and discussions.
- Developing of GUI Interfaces.
- Reading of techniqual values from datbases.
- Serial communication.
- SPS connection of mashines in processstreets.
- Connecting of several production pc's with NT 4.0 Server.
- Connection to Windows NT pc's to an UNIX-mainframe over FTP protocol.
- Administration of Windows NT.
- Documentations.
- Installations.
- Service travels.

Realized with:	Operatingsystems	Windows NT 4.0, Windows 95, Windows 3.x
	Developmenttools	Visual Basic 5.0, C, Visual C++
	Databases	Access 7.0, FoxPro
	Tools, Libraries	MS-JetEngine, DAO, RDO, ODBC, Custom Controls ActiveX from Crescent, OnNet FTP, InstallShield, MFC, MSDN

Developing of a Windows application to measure the pollution of Cars.

Branch: Automobil
References: Co. Bosch in Plochingen. Contact person Mr. Roth.

| from | 07.94 | - | 12.94 | with | 6 months |

- Working in a Softwareteam (5 people).
- Using MS SourceSave.
- Extensiv use of Windows API.
- Design and development of GUI dialogs.
- Serial communication to the measure devise.
- Print of Data on the printer.
- Protocolling into the database.
- Test and support.

Realized with:	Operatingsystems	Windows 3.11
	Developmenttools	Borland C/C++
	Databases	Access 2.0
	Tools, Libraries	SourceSave, Installshield, Windows API

Developing an Satellite Network Management System.

Branch: Telecommunication
References: Co. ANT Nachrichentechnik in Backnang. Contact person Mr. Fröschle.

| from | 02.94 | - | 07.94 | with | 6 months |

- Analysis of the problem in cooperation with the users.

- Documentation of the features.
- Design and development of GUI-Modules.
- Using an objectoriented database
- Developing a Client/Server application.
- Implementation and documentation in english.

Realized with:	Operatingsystems	UNIX Solaris
	Developmenttools	vi Editor
	Databases	Spectrum
	Tools, Libraries	C++, OS Motif

Application to administrate files in a Novell-Network.

Branch: Cartographie

from	08.92	-	01.93	with	6 months

- Developing of menue user interfaces in "C".
- Interface-convertierung in sveral formats (HPGL).
- Developing a Network-Multiuser-Tools.

Realized with:	Operatingsystems	Windows 3.1
	Developmenttools	Microsoft C