

Munich, 9. Januar 2026

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

Picture:



Overview:

- Dipl.-Ing. Computer Engineering (FH)
- 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:

- Senior Full Stack Developer
- Cloud Microservice architecture
- Single Page Applications (SPA)
- Jakarta EE, Java, JavaScript, Typescript, Groovy, Kotlin, Scala, Go, Python
- Angular, ReactJs, Wicket
- Spring Boot, Hibernate
- Kafka, NodeJs, npm
- Kubernetes, Docker
- REST API Webservices
- Coordination of Projects

Availability:

From **1.4.2026** 100%

Location:

Munich or Remote.

Conditions:

x,- € per hour.

Experience:

about 30 years

Birthday:

13.02.68

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Mobil: +49 172 / 95 94 590
E-Mail: info@hopf-it.de
Homepage: www.hopf-it.de

Past projects:

Crypto Key Distribution

Role: Senior Full Stack Developer
Branche: Software
References: Co. Akkodis in Stuttgart/Remote
Contact person Mr. Edgar Klein Co. Akkodis
<https://www.akkodis.com/de>

From	02/2025	-	02/2026	with	13 months
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REST server JSON encoding based on Java with Spring Boot
Typescript with Angular Web UI
Docker container image as build artifact
Nexus dependencies and target for build artifacts
Creating and optimizing build and CI/CD pipelines
Jenkins Multi-Branch Pipeline
Unit and integration testing with JUnit
Performance testing and monitoring
Ensuring code quality through SonarQube analysis
Optimizing software architecture and deployment processes
PKI Key Generation
Java 21 Spring Boot Applications
JHipster with JDL Schema Files
Ansible for Process Automation
SOAP Interface for data exchange
Message signature with Openssl
Zertificates and PKCS12-Files
Liquibase Database Migrations
Podman Container and Image Management
LDAP Access over Keycloak
Postgres as relational Datenbank
Sonar Quality Checks
E2E Integration Tests
Key Management for Satellite Communication
Role-based Access Control - RBAC
Provider for critical Infrastructures
Management of Security Modules
Multi-Factor Authentication (MFA)
Crypto know-how
Key distribution and PKI

Satellite navigation
 Requirements analysis
 Agile development of software projects
 Creation of concepts and requirements
 Functional software testing
 Reducing test and development cycles
 Requirements management, capturing requirements

Realized with: Operatingsystems	Unix, Linux, Windows
Datenbases	PostgreSQL, MariaDB
Developmenttools	IntelliJ, Visual Studio Code
Tools	Angular, @angular/material, bootstrap, eslint, TypeScript, webpack, router, SOAP, JHipster, Ansible, Python, pip, SSH Keys, Openssl, PKCS12, keytool, junit, Java, JakartaEE, JavaScript, podman, Docker, Keycloak, FreeIPA, OpenLDAP, Kerberos, Postgres, Spring Boot, Znuun, IAM, MFA, RedHat, RHEL, Linux, Windows, JIRA, Bitbucket, Exceed TurboX, Jenkins, Sonar, Sonarqube, jacoco, Confluence, checkstyle, archunit, prometheus, JWT, Websockets, Grafana, Logstash, Graylog, checkmk, SNMP, Nexus, gradle, groovy, kotlin, fasterxml, github, vaadin, apache commons, commons, netty, swagger, undertow, jakarta, joda-time, bouncycastle, IntelliJ, jetbrains, eclipse, hibernate, hamcrest, mapstruct, mockito, seleniumhq, slf4j, springframework, wsdl, nodejs, node, npm, Liquibase, REST, JSON, JavaScript, Git, CI/CD, Spring Actuator, Java 21 Streams API, Spring Data, freeIPA, LDAP

Bank Migration - Atruvia

Role: Technical Project Management
 Branche: Bank
 References: Co. Zühlke AG in London/Remote
 Contact person Mr. Kris Hubert, Mr. Tommaso Solcia
<https://www.amass-technology.com>
<https://www.zuehlke.com>

From	10/2024	-	02/2025	with	5 months
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Clarification of minimum requirements
 Relocation of servers to a data center
 Data center commissioning
 Project Management Coordination Tasks
 Migrationproject

- IT-Architektur
- Meeting Planung
- Project Timeplan
- Covering all Customer Requests
- Review Documentation
- Evaluation of Test Results
- Suggestions for Improvements and Enhancements
- Internal Coordination
- Providing continuous Updates
- Report Projectstatus
- Data Transfer and Integration
- Credit Bank Migration for Peridot
- Peridot Customer Migration to Atrivua

Realized with: Operatingsystems	Windows, Linux
Datenbases	H2, Oracle
Developmenttools	Eclipse, IntelliJ, Visual Studio Code
Tools	maven, IBM

Mission Control Panel - FELIS

Role: Senior Full Stack Developer
 Branche: Public Sector, Police
 References: Co. T-Systems in Berlin/Remote
 Contact person Mr. Tim Zett, Mr. Benjamin Zeiss, Mr. Frederic Mehl
<http://www.t-systems-ifs.com>

from	04/2023	-	09/2024	with	18 months
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- Asynchronous Microservices Landscape
- 30 Microservices for Front- and Backend
- Reactive, resilient and scalable Applications
- Consequent Usage of Reactive Programming Paradigms
- RxJava Reactive Extensions for the JVM
- Redux Frontend Component Store with NgRx
- NgRx Components
- Callbacks, Promises, Futures and Kotlin Coroutines
- Event Bus with Non-Blocking Verticals
- Asynchronous Event Loop
- WebSockets Server-sent Events
- Usage of Fluent API
- Event Sourcing Pattern
- CQRS and Saga Pattern

Eclipse Vert.x Toolkit
Kendo and Angular Material Design UI Components
RESTful URL Design
Vert.x-Web for RESTful HTTP Microservices
AMQP Messaging with Apache Kafka
Migration of Vert.x to Kafka
Distributed Clustering
Asynchronous Data and Event Streams
Implementing Back-Pressure Streams
Virtualised Environments and Containers
Docker and podman Containerization
One Time Password - Multi-Factor Authentication
JWT/OAuth2 based Authorization
CORS - Cross Origin Resource Sharing
CSRF - Cross Site Request Forgery
Zookeeper Cluster Manager
Monorepo Usage with Nx
Keycloak IAM Roles and Rights
Cloud Virtualization-Plattform VMware vSphere
DevOps Gitlab Pipeline
API-Gateway
Python and Robot for Data migration
AWS S3 File Storage
Development of a 110 Control-Panel for the Police
Disposition of Missions
Policeman Management
Tracing Management
Mission Protocol and Management
Location-based Map with Vectordata
Creation of Requirements and Concepts
Creation of Administration Guides
Team Lead

Realized with: Operatingsystems	AWS, Windows, Linux
Datenbases	H2, MariaDB, MsSql, MongoDB, PostgreSQL

Developmenttools Tools	Eclipse, IntelliJ, Visual Studio Code, Jakarta EE, Powershell, maven, gradle, ant, Infinispan, Hazelcast, Vert.x4, Verticle, SLFj4, jackson, netty, logback, assertj, TCP/IP, Http, JUnit5, VisualVM, jMeter, RxJava, RxJS, ReactiveX, JavaScript, REST Assured, Docker Compose, Minikube, Apache Kafka, Apache FreeMarker, Thymeleaf, Pebble, Rocker, X-XSRF- TOKEN, AJAX, XSS, Consul, Zookeeper, Kubernetes, Skaffold, podman, Redis, GraphQL, Failsafe, surefire-plugin, Circuit Breaker, Node.js, SockJS, Prometheus, Micrometer, Grafana, ZooKeeper, Ansible, helm, Terraform, GraphHopper, Gitlab, Node18, Java20, Kendo, Angular Material Design, Angular16, Angular Nx, Jest, Karma, Reducer, Robot Framework, Taurus, Hibernate, DozerMapper, Sonar, SOAP, Liquibase, VMware vSphere, Keycloak, IAM, JWT, OpenID Connect /OAuth2, Websockets, nrwl/nx, nx.dev, Cypress, TypeScript, JavaScript, Html, Css, Atlassian, Jira, Confluence, Bamboo, draw.io, Fileon and ColorZilla
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Online Banking - Customer Focus

Role: Senior Full Stack Developer

Branche: Bank

References: Co. Atruvia/attempo in München

<http://www.atruvia.com>

from	02/2022	- 03/2023	with	14 months
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Service Cut Design

Conception, Consulting and Maintain

Implementation in all Layers

Architecture Diagrams with ADOIT and ArchiMate

Java Spring Boot Microservices

Angular Single Page Application (SPA)

10 Microservices for Front- and Backend

TypeScript, Java, JavaScript, Groovy

RESTful Microservice Architecture

REST API Versioning

Red Hat Open Shift Cloud Environment

Docker Container into Kubernetes Cloud Environment

Jenkins CI/CD-Pipelines

Infrastruktur as Code (IaC)

JSON Web Token (JWT), Bearer- Authorization-Header

Usage of the Omnikanalplattform OKP
Implementation of Java Banking Framework JBF
Kubernetes Commands and Configuration
Quality Tasks with Sonar and Linting
Multi Maven Projects
Nexus Artifact Repository
JSON Data Communication
Alerting, Health Checks
Postman, Swagger, OpenAPI
Redis In Memory Cache
Host Connection and COBOL Copybook Integration
Testautomation, Performance Analysis, Resilience
Cypress and Karma Tests
Sleuth, Zipkin, Opentracing, Dynatrace
Grafana and Dynatrace Monitoring
Spring Boot, Spring Data, Spring Cloud OpenFeign
Release and Feature Toggles
Spring Expression Language
NodeJs JavaScript Backend Development
JavaScript NodeJs Tests with Mocha and Chai
NGINX Configuration
Soap Communication Protocol
Kubernetes Secrets Configuration
Semantic Versioning
DevOps with CI/CD Jenkins Pipelines
Unix Shell Scripts with bash
Web Performance Analysis Tools
Data Exchange with WSDL and SOAP
JMeter Heavyweight Tests
Development Parts for Online Banking Platform
Browser and Mobil based Banking as Single Page Application (SPA)
Creation of Concepts
Creation of Administration Guides
Reviews of Sourcecode
Support of Developers
Coordination Dev and DevOps Tasks
Remote Communication over MS-Teams
Agile Development in Scrum Team and SAFe
Grooming, Planning, Retrospective, GIP
Communication in English and German
OnlineBanking and VR Banking App

Realized with: Operatingsystems Datenbases	Red Hat Open Shift, Windows, Linux H2, Oracle
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Developmenttools Tools	Eclipse, STS, IntelliJ, Visual Studio Code Powershell, ADOIT, ArchiMate, LeanIX, Mapstruct, Hazlecast, Java 17, JUnit 5, Jupiter, Lighthouse, web.dev, requestmap.webperf.tools, webpack- bundle-analyzer, WebP, Angular 15, Postman, newman, Swagger, Git, Bitbucket, Jenkins, OTC, Red Hat OpenShift, AWS, Kubernetes, NGINX, Ingress, JMeter, Kafka, Teams, TypeScript, Groovy, JavaScript, Jasmine, Cypress, Mocha, Chai, Karma, Gherkin, cucumber, mural, xrepository, Sleuth, Zipkin, Opentracing, Dynatrace, Spring Boot, Spring Data, Docker, JPA, Hibernate Envers, LogBack, Log4j2, JWT, Maven, Nexus, Sonar, Lint, Hystrix, H2, Oracle, MsSQL, PostGre, Liquibase, NodeJs, npm, yarn, Checkstyle, curl, JIRA, OWASP, Kubectrl, yaml, Notepad++, GraphQL, SASS/SCSS, SmartBear SoapUi, Citrix, SourceTree, SmartGit, Lombok, @angular/material, SQLDeveloper, Nx, ngx/store, @ngrx/component-store,, IBM RecordClassGenerator, Redis, Grafana, Prometheus, Istio, kibana, Confluence, JIRA, OpenAPI, ReadyAPI, planitpoker, electron, conceptboard.com, miro, wiremock, lucidchart, arc42, Sketch MeaXure
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Shared projects for judiciary - GeFa

Role: Technical Architect

Branche: Public Sector

References: Co. .msg in München/Ismaning

Contact person Mr. Shinja Strasser, Mr. Helmut Lämmermeier

<http://www.msg.de>

<http://www.gefa-justiz.de>

from	08/2021	- 02/2022	with	7 months
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Architecture Responsibility and Service Cut
Domain based Microservices
Conception of Cross cutting themes
BSI Security-Requirements
Analysis of None-Functional-Requirements
Conception, Maintain and Consulting
Creation of Architecture Concepts
Greenfield Project
Communication with Senior Full stack Devs
Angular Single Page Application (SPA)

Browser based Court-WebApp
Approx. 30 Microservices for Front- and Backend
TypeScript, Java, JavaScript, Groovy
RESTful Microservice Architecture
REST API Versioning
Framework for Standardization of Microservices
Open Telekom Cloud Environment OTC
Docker Container into Kubernetes Cloud Environment
Jenkins CI/CD-Pipelines
JSON Web Token (JWT), Bearer- Authorization-Header
Kubernetes Commands and Configuration
Relational SQL Scripts
Database Connections and Liquibase Migrations Scripts
Hystrix latency for Fault Tolerance
CircuitBreaker, FeignClients, SoapClients
Quality Tasks with Sonar and Linting
Multi Maven Projects
Nexus Artifact Repository
JSON Data Communication
Alerting, Health Checks
Postman, Swagger, OpenAPI
Testautomation, Performanceanalysis, Resilience
Cypress and Karma Tests
Sleuth, Zipkin, Opentracing, Dynatrace
Monitoring, Security
Spring Boot, Spring Data, Spring Cloud OpenFeign
Release and Feature Toggles with trunk-based-development
Spring Expression Language
NodeJs JavaScript Backend Development
JavaScript NodeJs Tests with Mocha and Chai
Ingress Service Discovery
NGINX Configuration
Soap Communication Protocol
Kubernetes Secrets Configuration
Semantic Versioning
Angular State Management with ngxs/store, Actions and Reducer
Angular Material Design UI Components
DevOps with CI/CD Jenkins Pipelines
Shell Scripts
Web Performance Analysis Tools
Data Exchange with WSDL and SOAP
JMeter Heavyweight Tests
Operation of Certification Authority (CA) for PKI
Usage of Public-Key-Infrastructur (PKI)

Meetings with business domain experts
 Development of a Court-Software for the German Justice
 Browser based Court-App as Single Page Application (SPA)
 Ca. 100 involved Persons in Development
 Reviews of Sourcecode
 Coordination of Devs and DevOps Tasks
 Agile Development in a Scrum Team and SAFe
 Grooming, Planning, Retrospective
 Communication in English and German

Realized with: Operatingsystems	Open Telekom Cloud (OTC) , Windows, Linux
Datenbases	H2, Oracle, MsSQL, PostGre
Developmenttools	Eclipse, STS, IntelliJ, Visual Studio Code
Tools	ArchiMate, LeanIX, Mapstruct, Hazlecast, Java 11, Lighthouse, web.dev, requestmap.webperf.tools, webpack-bundle-analyzer, WebP, Angular 13, Postman, newman, Swagger, OpenAPI, Git, Bitbucket, Jenkins, OTC, Kubernetes, NGINX, Ingress, JMeter, Teams, WebEx, Angular, TypeScript, Groovy, Java, JavaScript, Jasmine, Cypress, Mocha, Chai, Karma, Gherkin, cucumber, mural, xrepository, XJustiz, Sleuth, Zipkin, Opentracing, Dynatrace, Spring Boot, Spring Data, Docker, JPA, Hibernate Envers, LogBack, Log4j2, JWT, Maven, Nexus, Sonar, Lint, Hystrix, H2, Oracle, MsSQL, PostGre, Liquibase, NodeJs, npm, yarn, Checkstyle, curl, JIRA, OWASP, Kubectrl, yaml, Notepad++, GraphQL, SASS/SCSS, SmartBear SoapUi, Citrix, SourceTree, SmartGit, Lombok, @angular/material, SQLDeveloper, Nx, ngx/store, Prometheus, Eclipse, STS, IntelliJ, kibana, Confluence, JIRA, coyo

Housing-saving Calculator and Taxes

Role: Senior Full Stack Developer
 Branche: Finance
 References: Co. Fiducia GAD in München/Aschheim
 Contact person Mr. Matthias Leukert, Mr Erich Burggraf, Mr. Martin Hahn
<http://www.fiduciagad.de>

from	12/2019	- 08/2021	with	20 months
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Angular Single Page Application - SPA
 12 Microservices for Front- and Backend
 TypeScript, Java, JavaScript, Groovy
 RESTful Microservice Architectur

REST API Versioning
Framework for Standardization of Microservices
Red Hat OpenShift Cloud Environment
Red Hat Enterprise Linux (RHEL) Systemadministration
Docker Container in Azure Cloud Environment
JSON Web Token (JWT), Bearer- Authorization-Header
Kubernetes Commands and Configuration
Relationale SQL Scripts
Database connections and Flyway Migrations Scripts
Hystrix latency for Fault Tolerance
CircuitBreaker, FeignClients, SoapClients
Quality with Sonar and Linting
Multi Maven Projects, Gradle Build Scripts
Nexus Artifact Repository
AMQP Messaging - Advanced Message Queuing Protocol
Usage of the Omnikanalplattform OKP
Implementation of Java Banking Framework JBF
JSON Data Communication
Alerting, Health Checks
Postman, Swagger, OpenAPI
Camunda Process-Engine
Camunda BPMN-Workflows and DMN-Decisions
Testautomation, Performanceanalyze, Resilienz
Selenium, Fitnesse, Protractor and Karma Tests
Zipkin, Opentracing, Dynatrace
Monitoring, Security
Spring Boot, Spring Data, Spring Cloud OpenFeign
Release and Feature Toggles with trunk-based-development
Spring Expression Language
NodeJs JavaScript Backend Development
JavaScript NodeJs Tests with Mocha and Chai
Consol Service Discovery
Soap Kommunikations Protokoll
Openshipt Secrets Konfiguration
Semantic Versioning
Angular State Management with ngxs/store, Actions and Reducer
Angular Material Design UI Components
Migration towards Angular 11
JQ Json Parser
DevOps with OpenShift CI/CD Jenkins Pipelines
Shell Scripts
Web Perfomance Analyse Tools
Data exchange with WSDL and SOAP
JMeter Robustness Tests

Developing of a Housing-saving Calculator
 Enhancement of the Bank Desktop - BAP
 All kind of taxes sheets
 REST Interfaces tou BAP, KAPST and agree21
 Meetings with buisness domain experts
 Reviews of Sourcecode
 Dev and DevOps Tasks
 Remote Communication over Skype and Gotomeeting
 Agile Development in a Scrum Team and SAFe
 Grooming, Planning, Retrospective
 OnlineBanking and VR Banking App
 Communication in English and German

Realized with: Operatingsystems	Azure Cloud, Windows, Linux, Ubuntu KDE
Datenbases	H2, Oracle
Developmenttools	Mapstruct, Hazlecast, Java 11, miro.com,
Tools	HashiCorp Consul, Lighthouse, web.dev, requestmap.webperf.tools, webpack-bundle- analyzer, WebP, Angular 11, Postman, newman, Swagger, OpenAPI, Git, Bitbucket, Jenkins, Red Hat OpenShift, Azure, Camunda, Spin, JMeter, IBM Lotus Notes, Teams, GotoMeeting, Angular, TypeScript, Groovy, Java, JavaScript, Selenium, Jasmine, Protractor, Mocha, Chai, Karma, Fittesse, Zipkin, Opentracing, Dynatrace, Spring Boot, Spring Data, Kubernetes, Docker, AMQP Messaging, JPA, Hibernate, Log4j2, JWT, Maven, Gradle, Nexus, Sonar, Lint, Hystrix, H2, Oracle, SQL, Flyway, NodeJs, npm, yarn, Checkstyle, curl, JIRA, OWASP, Kubectrl, yaml, Notepad++, GraphQL, SASS/SCSS, SmartBear SoapUi, Citrix, Telegram, SourceTree, SmartGit, Lombok, @angular/material, SQLDeveloper, ngx/store, allure, IKESA, VR-NetKey, aqua, Grafana, Prometheus, funretro.io, IntelliJ, consul.io, gson, kibana

Digital Marketplace - G2M

Role: Full Stack Developer

Branche: Telecommunication

References: Co. Rohde & Schwarz in München

Contact person Mr. Patrick Bauriedl, Mr. Ivan Kostov, Mr. Christ. Maurer

<http://www.rohde-schwarz.com>

from	09/2019	-	12/2019	with	4 months
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Development of Digital Marketplace Applications

WebShop Development with Angular and NodeJs
Backend and Frontend with TypeScript and JavaScript
Packet Manager npm and yarn
Azure Cloud based PaaS
Docker based MicroServices
Docker Compose multi-container solutions
Harbor Registry for Docker images
Git Hooks with Husky
Red Hat OpenShift Pods
OKD Jenkins Pipelines and Clusters
Administration of OpenShift Clusters
OC and Kubectl CLI commands
Yaml Templates as OpenShift Service Definition
Azure Service Bus for asynchrones Messaging
REST API Routes with Versioning
OpenAPI, Swagger Documentation
Authentification over SAML Service
NoSQL Datenbase MongoDB
Configuration as Code with Jenkinsfiles
CI/CD Pipeline
Distributed Tracing, OpenTracing
OWASP and Lizenze checks
CSS Styles and Html Templates
Jasmine, Karma and Robot Tests
Test with Robot Framework and RIDE Suites
Python Scripte for Test Automation
Sonar and Checkstyle Coverage
Dev and DevOps Duties
Development of a generic Webshop
Shop Extensibility for cloud products
Go-2-Market Applications - G2M
Identity and Access Management - IAM
Remote Communication over GotoMeeting
Agile, remote Scrum Team
Grooming, Planning, Retrospective
Project language English

Realized with: Operatingsystems	Azure Cloud, Windows, Linux, Ubuntu KDE
Datenbases	MongoDB, CosmosDB, mySQL

Developmenttools Tools	Red Hat OpenShift, Azure, MongoDB, Docker, Visual Studio Code, Notepad++, Citrix, Chrome DevTools, TypeScript, Angular, Jasmine, Karma, Robot Tests, ESLint, NodeJs, npm, yarn, PMD, Checkstyle, Sonar, JIRA, Docker, Proxyfier, Postman, Hyper-V, VMware, Skype, git, bash, zipkin, jaeger, depcheck, module-structure, retire.js, OWASP, Harbor, CosmosDB, Husky, OKD, OC, Kubernetes, Kubectl, Keycloak, MockServer, Ubuntu KDE, Kate, Dolphin, robotframework, RIDE, Python, pip, MarkdownViewer++, Markdown Extension, json, yaml, JWT, APISimulator, draw.io, Studio 3T, OpenAPI, Swagger
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Siemens Corporate Entitlement Service - CES

Role: Full Stack Developer

Branche: Security

References: Co. Siemens in München

Contact person Mr. Siegfried Eichner, Mr. Binh Le Nguyen, Mr. Erik Bergjohann, Mrs. Elena Thiel

<http://www.siemens.com>

from	06/2018	-	09/2019	with	16 months
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- Implementation of Spring Microservices
- Spring Boot and Spring Batch Applications
- Spring Core, Security
- Spring Eureka Multi Instanz Architecture
- Spring Cloud Netflix, Eureka, MVC, Thymeleaf
- RESTful Spring Controller
- Angular Frontends development
- Npm and NodeJs
- Java and JavaScript
- Reactive Programming with Typescript
- Json and yaml
- Jenkins Release Pipeline with Jenkinsfile
- Groovy Scripts
- Java 8 Functional programming
- JWT (JSON Web Token) for Microservices
- Maven Multi Module Projects
- DevOps Tasks
- Cloud Foundry
- Artifactory Repository
- Git and svn Repositories
- Svn to Git Migration

Introduction of Git-flow Workflow with GitLab
In-memory data grid performance optimization
XSS Cross Site Filter for Tomcat
PKI Infrastructure
Public Key, private Key communication
One Time Password - OTP
OpenID, Single Sign On - SSO
Security Assertion Markup Language - SAML
DirX and LDAP lookup
Windows Active Directory Configuration
Active Directory-Certification Service (AD CS)
Apache Load balancing
Tomcat Web Applications
Shell Script programming
Sonar for static code analyse
OWASP Security Findings
HTML5, CSS
Spikes for Kotlin and Scala
Kundenaccounts with Single Sign On
Authentication / Authorisation
Segregation Of Duties – SoD
Agile Story Planung with JIRA
Smartcard PKI Login
Secure Coding
Protection Requirements Assessment PRA
User Management
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 Database	Windows, Linux Oracle, H2, mySQL
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Developmenttools Tools	Microsoft AD, AD CS, Visual Studio Code, Eclipse, STS, Java, Kotlin, Scala, Mockito, RxServer, Netty, Lombok, Cucumber, GitLab, YAML, Portecle, Ansible, JWT, Retire.JS, Git, svn, bash, Tomcat, Jetty, Entrust, Syncplicity, Splunk, Circuit, 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
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Financeportal for public financing - PIF

Role: Full Stack Developer

Branche: Bank, Fintech

References: Co. Dt. Pfandbriefbank/Capveriant in Munich/Unterschleißheim

Contact person Mr. Benedikt Girz, Mr. Sergiy Barlabanov

<http://www.pfandbriefbank.com>

<https://www.capveriant.com>

from	11/2017	- 05/2018	with	7 months
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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
 Spike for Scala
 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 Speech 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

Developmenttools Tools	Azure, Node.js, bash, npm, Eclipse, IntelliJ 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
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Logistic for yard management - flow

Role: Full Stack Developer

Branche: 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 Tools	NodeJs, npm, ReactJS, JavaScript, Mocha, 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 - ANDIE

Role: Full Stack Developer
 Branche: Insurance
 References: <http://www.aioinissaydowa.eu>
 Co. AIOI in Munich/Ismaning.
 Contact person Mr. Martin Brauner.

from	10/2016	- 03/2017	with 6 months
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Angular 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++, subethasmtplib

Telephone Number Porting with Java EE

Role: Backend Developer
 Branche: 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
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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

Role: Backend Developer
 Branche: 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
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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 continuous integration job administration

JUnit Mockito tests and integration tests

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

Role: Backend-, Frontend-Developer

Branche: Health Insurance

References: <http://www.kvb.de>

Co. KVB in Munich. Contact person Mr. Matthias Geiss.

from	09/2012	-	07/2015	_	with	35 months
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- Development of the online portal OPAL
- Extension of existing service interfaces
- Spring Core for Dependency Injection CDI
- Spring Web Flow for page navigation
- Spring Restful Webservice implementation
- Spring authentication and authorization
- Browser plausibility with JavaScript
- Buildmanagement with Gradle Buildsript 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 .yaml
- 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 Toggly, 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, Subclipse, Subversive, Tortoise, Firebug Firefox Addon, Selenium Plugin, Live HTTP headers Firefox Addon, EclEmma Eclipse Addon, CheckStyle, Maven, Tomcat, JUnit, XSLT, HttpUnit, DbUnit, Jenkins, joda-time.jar, jQuery, JavaScript Rhino Engine, JavaScript

Web Wiki/Community Angeln.de (Fishing website)

Role: Backend-, Frontend-Developer

Branche: Softwarehouse, Startup Company, Printmedia

References: <http://www.angeln.de>
<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, reusable 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
 Implementation of SEO (Search Engine Optimization) techniques
 Localized URL generation in various languages
 Persistence 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
 Maintenance of the persistence service
 Schema maintenance 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
 Continuous integration and nightly build using Jenkins
 Spring Dependency Injection Integration DI
 CSS and JavaScript development and debugging with Firebug plugin for Firefox
 Usage of EcEmma 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 Tools	J2SE 6, Eclipse 3.6.2 Helios, Glassfish Embedded, Glassfish 3.1.1, Embedded Jetty EJB 3.1, JPA, CriteriaAPI, Apache Wicket 1.5, Eclipse, SVN, Subclipse, Subversive, Firebug Firefox Addon, Live HTTP headers Firefox Addon, PrefBar Firefox Addon, AnyEdit Eclipse Addon, EclEmma Eclipse 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
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JEE Tariff Calculator and Webservice

Role: Backend-, Frontend-Developer

Branche: Insurance

References: <http://www.lv1871.de>

Co. LV1871 in Munich. Contact person Mr. Alexander Gold.

from	07/2009 - 07/2011	with	25 months
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Relaunch/Development of the existing Tariff Calculator software with Apache Wicket Framework

Development/Maintenance of the existing Tariff Calculator software with Apache Struts

Components with usage of Wicket HTML markup inheritance 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 programming 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
- Maintenance 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
- Maintenance 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 Tools	J2SE 6.0, Eclipse 3.x, Jetty6, Tomcat6, Live 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

Role: Backend-, Frontend-Developer

Branche: 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
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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

Role: Backend-Developer

Branche: 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
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- 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 runnable 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, SquirrelL DBViewer, SQLDeveloper, SQLPlus, DbVisualizer, VNC, 7- Zip, Tortoise, Subversion SVN, WinSCP, PuTTY, Jira Bugtracking, Clearspace, Thunderbird, Firefox, Ace WINScreen, Windows XP, Linux Ubuntu, 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)

Role: Developer

Branche: 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 business and domain experts

Use Case description with the CASE Tool MagicDraw

MDA usage for the persistence 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 business logic and the GUI

Quality ensured with 80% JUnit test coverage and CheckStyle coding conventions

Maintenance and rollout

Attendance of the project from beginning to the end (product version 1.0)

Incremental 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 processing.

Communication with an understaffed domain department.

Quality enhancement with coupling- and dependency metrics

Realized with: Operating systems Windows
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Developmenttools Tools	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, Squirrel, SQL Workbench, WinCVS 2.0, TortoiseCVS, Firefox, Thunderbird, Nvu (Html-Editor), cygwin Unix Emulator, PuTTY, WinSCP
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J2EE WebShop

Role: Developer

Branche: eCommerce

References: <http://www.publicWEBshop.com>

from	12/2005 - 02/2006	with	3 months
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Webapplication to run an online web shop.
 Generic webshop for all kinds of businesses.
 Freely configurable 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
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Developmenttools Tools	Eclipse 3.1, Enterprise Architect, XMLSpy Enterprise Edition, JBoss, Tomcat 5.5, Struts, Ant, JUnit, Macromedia Flash and Dreamweaver, div. Eclipse Plugins, MySQL 5
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Trainings and Consulting

Role: Developer

Branche: All areas

References: here are the biggest companies:

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
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J2EE

EJB, JSP and Servlets.

Java , SWING.

Webapplications.

EAI integration with different interfaces.

Message queue connections 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 techniques.

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

Role: Developer

Branche: Insurance

References: Kassenärztliche Vereinigung Bayern (KVB) in Munich.

Contact person Mr Dietl.

from	02/2004	-	03/2004	with	2 months
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Refactoring and Reengineering 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

Role: Developer

Branche: All areas

References: here are the biggest companies:

Co. SUN Microsystems 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
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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

Role: Developer

Branche: Bank, Billingsystem

Reference: 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 spezifikation.
 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-Trading and Portfolio-System

Role: Developer

Branche: Bank, Stock

References: Co. FMIS - Hypovereinsbank in Munich. Contact person Mrs Sterr.

from	02/99	-	03/2000	with	13 months
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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 „Ertragnisaufstellung/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

Role: Developer

Branche: Finance and Insurance

References: Co. NSE in Munich. Contact person Mr. F. Nerb.

from	05/98	-	02/99	With	10 months
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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 plattform.

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

Role: Developer

Branche: Softwarehouse

from	01/98	-	04/98	with	4 months
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Spezifikation 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

Role: Developer

Branche: Advertising

References: Co. MPS in Munich. Contact person Mr. Hunsinger.

from	11/97	-	12/97	with	2 months
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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

Branche: Lasertechnique

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

from	03/96	-	11/97	with	21 months
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Spezifikationen of the Softwarefeatures.

Customervisits and discussions.

Developing of GUI Interfaces.

Reading of techniquai values from datbases.

Serial communication.

SPS connection of mashines in processtreets.

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

Role: Developer

Branche: Automobil

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

from	07.94	-	12.94	with	6 months
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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

Role: Developer

Branche: Telecommunication

References: Co. ANT Nachrichtentechnik in Backnang. Contact person Mr. Fröschle.

from	02.94	-	07.94	with	6 months
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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.

Role: Developer

Branche: Cartographie

from	08.92	-	01.93	with	6 months
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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