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Languages German
English

Focus Areas

Software development and architecture with Java, Cloud and DevOps

Professional Experience

Since 06.2010 Freelance Software Consultant

02.2009 – 05.2010 C1 Setcon Gmbh GmbH, Munich
- Senior Architect (02.2009 – 05.2010)

01.2003 – 01.2009 Wipro Technologies GmbH, Munich
- Architect (05.2006 – 01.2009)
- Lead Developer (01.2003 – 04.2006)

08.2022 – 01.2003 Deutsche Software Limited Pvt Ltd, India
- Senior Software Developer

07.2000 – 08.2002 Component Insights Pvt.Ltd, India
- Software Developer

05.1999 – 07.2000 Logic Point Pvt. Ltd, India
- Software Developer

Certificates

- **AWS Certified Solutions Architect Associate** – Jul 2020
- **Certified Scrum Master from Scrum Alliance** – Dec 2009
- **Sun Certified Enterprise Architect** for Java Platform Enterprise Edition Technology – Apr 2006

Projects

KYC – Know Your Customer

Project Duration: 09.2023 – Present
Client: Telefonica o2 Germany, Munich

Technologies used:

Java 17, Python, Spring 6, JPA, Lombok, Cucumber 7, GitLab CI/CD, AWS (Load Balancer, ECS, CloudWatch, KMS, IAM, S3, Code Deploy, Secrets manager), Terraform, Docker, Docker Compose, Payara 6, Maven, Artifactory, Git, Junit, REST, OpenAPI, Jira, Scrum, SonarQube, Trivy

Project Description:

Developed a KYC API to verify customer identities based on verified bank account data linked to their mobile number. The goal is to improve the conversion rate for new customer registrations and accelerate the approval process for customer products.

Results:

- **Improved conversion rate:** Faster and seamless verification led to higher customer registration rates.
- **Enhanced Data Quality:** Stronger validation of personal attributes reduced errors and incidents.

Responsibilities:

- Designed and developed the application.
- Implemented REST APIs using Spring MVC.
- Developed business logic.
- Developed AWS ECS infrastructure with Terraform.
- Established DevOps processes, including GitLab CI/CD pipelines and AWS deployment.
- Conducted code reviews to ensure quality and best practices.
- Created ELK APM, metrics, logs, and uptime dashboards.

Migration of TelCo Stack to AWS

Project Duration: 09.2020 – 02.2024
Client: Telefonica o2 Germany, Munich

Technologies used:

Java 8 , Python, Docker, Docker Compose, Payara 5, Terraform 1.9, AWS (ECS,

CloudWatch, CodeDeploy, StepFunctions, SecretsManager, RDS, EC2, ElasticCache, S3), GitLab CI/CD, Spring 5, JPA, Cucumber 7, Terraform, Maven, Artifactory, Git, Junit, PostgreSQL, Apache Kafka, REST, Jira, Scrum, SonarQube, Trivy

Project Description:

Migration of existing middleware components to the AWS platform. The migration involved a complete redesign of the application, including switching the application server, database, and cache, and adapting them to AWS. The data migration, including runtime and transaction data, was performed overnight to minimize downtime. AWS Step Functions and Lambda (in Python) were used to develop a scalable workflow engine.

Results:

- **Successful data migration:** Ensured data integrity and minimal downtime during the migration.
- **Cost reduction:** Lowered platform costs by migrating to AWS.
- **Optimized CI/CD-Pipelines:** Implemented modern GitLab pipelines to automate deployment processes
- **Decommissioning of On-Premise Servers**: Reduced hardware costs and simplified infrastructure.
- **Increased Scalability and Availability:** Improved application scalability and availability by leveraging cloud services.

Responsibilities:

- Refactored, replatformed and redesigned applications to run on the new Payara application server and PostgreSQL database.
- Migrated the cache from Oracle Coherence to Redis.
- Set up DevOps processes, including GitLab CI/CD pipelines, and deployed the application on AWS.
- Supported development of Infrastructure scripts with Terraform
- Developed integration tests using the Cucumber framework.
- Conducted code reviews to ensure code quality, efficiency, and best practices.
- Created ELK APM, metrics, logs, and uptime dashboards.

Middleware System in TelCo Stack

Project Duration: 01.2009 – Present
Client: Telefonica o2 Germany, München

Technologies Used:

Java 8, Weblogic 12, Oracle 12, Jersey (REST), SOAP (JAX-WS 2.2), JBoss, Drools 4,

JPA, Spring 2.5, Maven 3, GitLab, IntelliJ, EJB 3 (MDB), JPA, Oracle AQ, JUnit 4.x, EasyMock 2.5, Log4J, Scrum, Spring 3.1, Web MVC, Oracle Coherence 12.2, Jenkins, Gradle, SonarQube, Trivy, Splunk

Project Description:

Development of an innovative and complex middleware solution acting as an interface between frontend channels and backend systems. This middleware provides comprehensive REST and SOAP APIs for various business areas, including product catalog, customer self-care, reactivation, and contract renewal. Key challenges included designing and implementing authentication and authorization concepts as well as ensuring system performance, stability, and robustness.

Results:

- **High system availability**: Ensured a stable and robust middleware capable of efficiently handling a high number of requests.
- **Optimized performance**: Improved response times through targeted adjustments and optimizations of the middleware architecture.
- **Successful integration**: Seamless connection of frontend channels to backend systems using modern APIs.
- **Agile development**: Implementation of Scrum methodologies for flexible and rapid adaptation to changing requirements.
- **Caching and throttling**: Introduced caching mechanisms and throttling protection to prevent overloads on frontend and backend systems.

Responsibilities:

- Designed and implemented REST APIs for frontend channels right from prototyping to launch.
- As an architect and lead developer, led development teams and supported the analysis team. Actively involved in development tasks and closely coordinated the team's development activities.
- Designed and implemented SOAP APIs for backend systems (e.g., CRM, billing, GIS, prepaid).
- Solely responsible for the review and approval of over 40 northbound and southbound interfaces.
- Integrated ELK APM, metrics, logs and created dashboards.
- Developed the authentication and authorization concept for the middleware.
- Supported the team in ensuring system performance, stability, and robustness.
- Provided third level support for any issues identified in production
- Co-developed Jenkins pipelines for build, test, and deployment on WebLogic Server.

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eCRM Aktiv

Project Duration: 04.2008 – 06.2011
Client: Telefonica o2 Germany, München

Technologies Used:

Java 7, Weblogic, Oracle 11g, SOAP (JAX-WS 2.1), JBoss Drools 4, JPA, Spring 2.5, Maven 3, GitLab, Eclipse, EJB 3 (MDB), JPA, JUnit 4.x, Log4J, Scrum, Spring 3.1, Web MVC, Jenkins, Gradle, SonarQube

Project Description:

'eCRM Aktiv' is an application for activating new customers within the Telefónica system stack. Orders from O2 shops and partner stores are processed through highly available workflows that include various critical steps for workflow execution.

Results:

- **Efficient migration:** Successfully migrated business data from the old system to the new workflows, taking into account the complexity of the data.
- **Optimised Performance:** Improved performance by optimizing highly available workflows to meet time constraints.

Responsibilities:

- Modeled the complete order structure and provided SOAP interfaces for internal customers and Telefónica partners.
- Designed and implemented a custom workflow engine, along with workflow components and adapters.

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eCRM Classic

Project Duration: 01.2003 – 04.2008
Client: Telefonica o2 Germany, München

Technologies Used:

Java 5, Weblogic 8, Eclipse 4.2 Juno, JPA, Hibernate 4, Oracle 11g, JUnit 4.x, DBUnit, SVN, Hudson

Project Description:

eCRM – **Electronic Customer Relationship Management** integrates functionalities from various backend systems and provides a standard unified API for its northbound clients. eCRM is a J2EE-based application.
It uses multiple protocols such as SOAP, XML/HTTP, RMI (within the firewall), CORBA, and JDBC to communicate with different applications used by customers, customer service representatives, and partner stores.
Additionally, eCRM offers an intranet frontend application called **Infoscreen**, which

enables O2 Germany's customer service agents to perform various operations on behalf of customers.

Results:

- **High system availability:** Ensured a stable and robust middleware capable of efficiently handling a high number of requests.
- **Optimised Performance:** Improved performance by optimizing highly available workflows to meet time constraints.

Aufgaben:

- Designed and implemented various critical components.
- Supported the development of the GUI for managing customer service representatives.
- Implemented the interfaces to northbound and southbound systems.
- Performed quality assurance measures, including code reviews and tests with JUnit and DBUnit.

FXPLUS

Project Duration: 08.2002 – 01.2003
Client: Deutsche Bank, Indien

Technologies Used:

Visual Age, JSP, Java Beans, Java Servlets, Java-RMI, CORBA, JavaScript, JDBC, DHTML, Java, CVS, Eclipse, Jtest, RCS, Rational Rose, UML

Project Description:

FXPLUS was developed as part of Deutsche Bank's global marketing strategy to tap into foreign exchange markets. FXPLUS enables end-users to place orders and conduct trading on Wall Street.

Phase 2 of FXPLUS provides a framework that allows FXPLUS servers to connect within Deutsche Bank's subsidiary banks, enabling them to communicate with each other via Nirvana Message Oriented Middleware.

Results:

- **Successful implementation**: Developed and integrated multiple modules to enable comprehensive management of the employee stock ownership program.
- **Optimized performance**: Ensured system performance, stability, and robustness during operation.

Aufgaben:

- Participated in the RUP process as an Application Analyst to clarify end-to-end requirements.
- Performed effort estimations and modeled changes (Use Case, Data Model).
- Ensured the performance and innovation of the application through technical support and quality assurance.
- Developed the order system based on Servlet API and conducted integration tests.

ProteOSS

Project Duration: 03.2001 – 08.2002

Client: Component Insights, Indien

Technologies Used:

JMS, Swing, Visual Age for Java, Visual Interdev, Enterprise Java Beans(EJB), Java-RMI,MQ series, PLUGINS, TIBCO, Tomcat Web Server, WebLogic, JDBC, Java, XML, CVS, CORBA, Eclipse, JUnit, OOAD, Rational Rose, UML

Project Description:

ProteOSSTM is a standardized TMF based, end-to-end integration solution that allows service providers to easily and seamlessly integrate their existing OSS (Operations Support Systems) with multiple applications and management systems. The ProteOSSTM Integration Product Suite takes application integration to the next level of sophistication.

ProteOSSTM is based on the NGOSS (Next Generation Operations Systems and Software) principles of the TMF (TeleManagement Forum). These principles address the integration problem at its core, not just at a superficial level.

Results:

- **Successful implementation**: Developed and integrated multiple modules to enable seamless integration of systems in Telco stack
- **Optimized system architecture**: Implemented a modular architecture, allowing easy expansion and maintenance.
- **Efficient testing procedures**: Applied testing methods (JUnit, JMeter) to ensure system quality and performance.

Responsibilities:

- Involved in design and development of different utilities like IDLParser to convert IDL to XMI and vice versa, logging framework, test framework.

- Ensured application performance and innovation through technical support and quality assurance.

IntelliDoc

Project Duration: 07.2000 – 03.2001

Client: Component Insights, Indien

Technologies Used:

MS Access, MS SQL Server, Visual Age, Visual Interdev, JSP, Java Applets, Servlets, Java Web Server, JavaScript, HTML, Java, CVS, OOAD, Rational Rose, UML

Project Description:

IntelliDoc is a complete HealthCare product developed in java for Physician Practice Management Systems targeted over Clinics in U.S. It follows Health Level – 7 Standard in maintaining the Practice management System. This handles all the transactions from appointment Scheduling to Maintenance of the Clinical Documents.

WebIntelliDoc is a Web-enabled Java tool for Healthcare Practice Management. Object model is based on the Resource Information Model of Health Level 7 (HL7) and features a persistence layer to handle storage and retrieval of objects from a database.

Results:

- **Successful implementation**: Developed and integrated the application, enabling efficient management of the healthcare practitioner system.
- **Optimized system architecture**: Implemented a modular architecture for both standalone and WEB applications, allowing easy expansion and maintenance.

Responsibilities:

- Contributed to the design and development of various server-side components.
- Developed the web application based on MVC, Servlet API and conducted integration testing.
- Ensured application performance and innovation through technical support and quality assurance.

WebGenie

Project Duration: 05.1999 – 07.2000

Client: Distributed Website Corporation, USA

Technologies Used:

JSP, Java Beans, Java Servlets, Java Web Server, JavaScript, JDBC, Java, Tomcat

Project Description:

WebGenie is a web portal developed for distributed Website Corporation. It leverages the Internet to build local community. Features 32,000 City Websites, one for every incorporated city in the United States. Provides services like like e-mail, Yellow Pages, White Pages, event calendars, online shopping and Free Websites.

Results:

- **Successful implementation**: Developed and integrated the application, enabling end customers to get required information on the fly.

Responsibilities:

- Contributed to the design and development of various server-side components.

Skills

Programming/Scripting Languages

- **Java 8/11/17:** Very good (20+ Jahre)
- **XML, XSD, XSL:** Very good (15+ Jahre)
- **SQL, PL/SQL:** Very good (15+ Jahre)
- **Groovy:** good (5+ Jahre)
- **Terraform:** good (4+ Jahre)
- **Python 3.x:** good (5+ Jahre)

Cloud Technologies

- **AWS (IAM, ELB, ECS, CloudWatch, RDS, Elastic Cache, CodeDeploy, Step Functions, Secrets Manager, Step Functions, S3, EC2):** Very good (5+ Jahre)

J2EE Technologies

- **EJB 2.1 / 3:** Very good (12+ Jahre)
- **JSP, Java Servlets, JSTL:** Very good (15+ Jahre)
- **JMS 1.1:** good (7+ Jahre)
- **Kafka 3.x:** Very good (5+ Jahre)
- **JDBC 3.x/4.x:** good (10+ Jahre)
- **JPA 2.x/3.x:** Very good (12+ Jahre)

- **SOAP / REST:** Very good (15+ Jahre)
- **Servlet API:** Very good (15+ Jahre)
- **JTA 1.3**: Very good (15+ Jahre)

CI/CD und DevOps-Tools

- **Jenkins (Admin, Pipelines):** Very good (7+ Jahre)
- **Git/Git Hub/GitLab (git, branching):** Very good (10+ Jahre)
- **GitLab CICD:** Very good (5+ Jahre)
- **Docker, Docker Composse**: Very good (7+ Jahre)
- **Maven 3.x**: Very good (10+ Jahre)

Frameworks

- **Jersey 2.x:** good (5+ Jahre)
- **Apache CXF 3.x:** Very good (7+ Jahre)
- **Open API, Swagger 2.x/3.x:** Very good (5+ Jahre)
- **JUnit 4/5:** Very good (10+ Jahre)
- **Spring 5.x/6.x:** Very good (15+ Jahre)
- **Cucumber 7.x:** Very good (8+ Jahre)
- **AssertJ 3.x:** Very good (8+ Jahre)
- **Mockito 4.x:** Very good (8+ Jahre)
- **Spring Boot 2.x/3.x:** Very good (10+ Jahre)
- **Lombok:** good (5+ Jahre)

Database and Tools

- **Oracle 10/11/12/19:** Very good (15+ Jahre)
- **PostgreSQL:** good (5+ Jahre)
- **SQL Developer 4.x:** good (5+ Jahre)
- **PGAdmin 4:** good (5+ Jahre)
- **Redis:** good (5+ Jahre)
- **DynamoDB:** good (5+ Jahre)

Web-/Application Server

- **JBoss (EAP Wildfly):** Very good (12+ Jahre)
- **Bea WLS 12:** good (7+ Jahre)

- **Tomcat 8.x:** good (10+ Jahre)
- **Payara 5.x/6.x:** Very good (7+ Jahre)

Operating Systems

- **Windows 8/10/11:** good (5+ Jahre)
- **Linux:** Very good (15+ Jahre)

Application Analysis/Design/Methodologies

- **Scrum:** good (15+ Jahre)
- **Object oriented Analysis/Design/Programming (OOA/OOD/OOP):** Very good (15+ Jahre)
- **Design Patterns:** Very good (15+ Jahre)

Others:

- **IntelliJ IDEA 202x.y:** Very good (7+ Jahre)
- **SoapUI:** good (10+ Jahre)
- **Jira:** good (10+ Jahre)
- **Confluence:** good (10+ Jahre)

Industry Experience

- **Telecom:** 22 Jahre
- **Banking / Heathcare:** 3 Jahre

Education

Bachelor of Engineering in Computer Science

University of Madras, Indien

Grade: Distinction