



Aditya Raj

Senior Software Engineer

A dedicated and enthusiastic graduate with experience in developing enterprise applications using Spring Boot, Quarkus, Javascript, Kotlin and Javascript. Excellent interpersonal skills and the ability to communicate at all levels. I enjoy part of being in a successful team and thrive in diverse working conditions.

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WORK EXPERIENCE

Senior Software Engineer MicroDoc GmbH

04/2019 - Present

Berlin, Germany

German software and engineering services provider focused on the automotive, manufacturing, energy, and public sectors.

Projects

- **NEOM GridPanning Project - Team Lead (April 2022 - Present)** As the Team Lead for the NEOM GridPanning Project, I am the technical lead of an agile team in the development of a cutting-edge automated tool. This tool harnesses real-time grid data and map information to empower users in visualising and planning current and future power requirements. My role involved overseeing the development of a robust solution, leveraging RestApi in Java and Quarkus for the BackEnd, while utilising Angular for the FrontEnd. The primary objective was to provide seamless APIs for the FrontEnd, achieved through parsing, cleaning, extracting essential data from XLS and map files and estimating costs for a comprehensive grid network.
- **Fleetboard-Telematics Software Developer (Jan 2021 - March 2022)** Worked for the development of Java-based Fleetboard-Telematics software at Daimler, implementing state machines to drive reward systems. These systems dynamically assessed driving skills, providing constructive feedback and incentivising positive behavior. The innovative use of state machines not only optimized system functionality but also contributed to safer and more efficient driving practices. This experience showcases my adeptness in leveraging advanced methodologies for impactful results.
- **Sparkasse Bank API Developer (April 2019 - Dec 2020)** As a key member of an agile team, I played a vital role in shaping the digital landscape for Sparkasse Bank. Focused on providing APIs for web and mobile app development, I extensively utilized Java and Kotlin for front-end development. My responsibilities included crafting APIs for various UI components using Spring Thymeleaf and Kotlin.

Software Engineer Accenture Technologies GmbH

04/2018 - 03/2019

Wolfsburg, Germany

Accenture Technologies powers global digital transformation with strategic tech services for enterprises.

Projects

- Worked with an 8-member agile team to enhance **Volkswagen's** customer-facing web portal using Java and Struts. Developed Java REST APIs and microservices, replacing legacy SOAP services. Collaborated across functions to implement updates and new features, gaining expertise in Java/J2EE, multithreading, and Agile methodologies. Led critical troubleshooting efforts, averting system downtime during high-traffic events.

SKILLS

Java/Kotlin R Python C/C++

Spring Boot/Thymeleaf Struts

Quarkus Angular React

NativeScript Statistical Data Analysis

Docker Kubernetes XSLT/XSD

ACHIEVEMENTS

Published a research paper on Cooperative Locality-aware Data Processing in Heterogeneous Wireless Sensor Networks project at Fachgespräch Fog Computing conference.

https://www.arenhardt.de/publications/2018/Raj_FGC_2018.pdf

LANGUAGES

English

Full Professional Proficiency

German

Limited Working Proficiency

INTERESTS

Solving Mathematical Puzzles

Chess

Badminton

General Affairs

Music

Physics

WORK EXPERIENCE

Research Analyst

Salzgitter Flachstahl GmbH

07/2017 - 06/2018,

Berlin, Germany

Germany Premier German/European flat steel manufacturer, specializing in high-end industrial steel products, and a Salzgitter AG subsidiary

Project

- Designed and implemented the innovative Voting Outliers Using Randomized Sampling (VOTERS) algorithm for analyzing defect patterns in long steel bars. Conducted thorough testing in R and seamlessly integrated the algorithm into Salzgitter's Java-based software. Spearheaded automated extraction of outliers using dimensionality reduction and unsupervised machine learning techniques. Significantly enhanced the company's steel quality classification system through the strategic application of Unsupervised Machine Learning.

EDUCATION

Master of Internet Technologies and Information Systems

Technische Universität Clausthal

09/2015 - 03/2018,

Clausthal-Zellerfeld, Germany

Grade: 1.4/5 (where 1=maximum grade)

Core Subjects:

- Machine Learning
- Database as a Service
- Simulation Sciences
- Artificial Intelligence
- Wireless Sensor Networks

Bachelor of Engineering in Information Technology

Vellore Institute Of Technology

05/2011 - 04/2015,

Vellore, India

Grade: 8.71/10 (where 10=maximum grade)

Core Subjects:

- Database Systems
- Digital Electronics and Microprocessors
- Object Oriented Analysis and Design
- Power Electronics
- Numerical Analysis
- Linear Algebra
- Probability and Statistics
- Theory of Computation