

VAIBHAV SINGH

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PROFESSIONAL SUMMARY

Software Engineer with 5+ years of experience building distributed enterprise systems. Proficient in Java 21 and relational database design, with a track record of delivering multi-tenant cloud solutions, optimizing service performance through refactoring, and architecting centralized frameworks for global microservices.

TECHNICAL SKILLS

Languages: Java 21, JavaScript (ES6+), SQL, HTML/CSS

Frameworks & Backend: Spring Boot, SAP CAP, RESTful APIs, OData, SAPUI5, Node.js

Cloud & DevOps: Cloud Foundry (PaaS), Docker, Apache Kafka, CI/CD Pipelines, Git

Databases & Storage: SAP HANA, MySQL, Redis (Caching), Relational Database Design

Architecture & Design: High Level Design (HLD), Multi-tenancy, Microservices, Resilience Patterns

Testing & Quality: JUnit, Mockito, REST Assured, QUnit, E2E & Integration Testing

PROFESSIONAL EXPERIENCE

SAP Labs India

Oct 2024 – Present

Software Developer

Bengaluru, India

- Implemented data replication and programmatic migration workflows across multi-tenant landscapes, ensuring strict schema isolation and data security for high-throughput enterprise workloads.
- Refactored suboptimal data retrieval logic to resolve performance bottlenecks, implementing paginated REST and OData endpoints and a caching layer to handle large-scale data fetches.
- Designed and implemented a state-machine-based validation framework for CRUD APIs, replacing scattered ad-hoc checks with a structured, extensible pipeline that adapts to application state.
- Led the development of a high-concurrency document service that parses rich text and embeds dynamic images into PDFs, optimized for low memory footprint and high resource efficiency.

SAP SE

Apr 2021 – Oct 2024

Associate Software Developer → Software Developer

St. Leon-Rot, Germany

- Owned the lifecycle of core business features by designing scalable RESTful APIs and optimized relational database schemas for a global document management platform.
- Collaborated with international teams to build a shared communication library for service discovery, document management protocols, and secure identity propagation across microservices.
- Enhanced system resilience against network instability by implementing fault-tolerant patterns including circuit breakers and retries for critical cross-datacenter service calls.
- Established testing standards using JUnit and integration tests, contributing to a stable release cycle and a measurable reduction in production regression issues.

Daimler AG

Jan 2020 – Jul 2020

Student Intern

Stuttgart, Germany

- Evaluated and designed an integration strategy for long-term digital archiving, focusing on reducing retrieval latency across disparate legacy storage systems.

GlobalLogic

Aug 2016 – Sep 2017

Associate Analyst

Gurgaon, India

- Improved data validation workflows used to prepare high-fidelity, verified datasets for machine learning production models.

EDUCATION

SRH Hochschule Heidelberg

Oct 2018 – Dec 2020

M.Sc. Applied Computer Science

Heidelberg, Germany

Dr. APJ Abdul Kalam Technical University

Jun 2012 – Jun 2016

B.Tech. in Computer Science and Engineering

Greater Noida, India