P V Santosh

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Summary

Backend Software Engineer with **3.5+ years** of experience designing and delivering scalable distributed systems using **Java, Spring Boot, Kafka, and AWS**. Strong experience in microservices, event-driven architectures, REST APIs, asynchronous processing, system design, security, performance optimization, and production engineering. Currently Software Engineer II at Guidewire.

Experience

Guidewire Software Bengaluru, Karnataka, India
Software Engineer II *July 2025 – Present*

- Designed and delivered production-grade backend services using **Java** and **Spring Boot** for enterprise insurance platforms, owning components across requirements, design, implementation, testing, deployment, and production support.
- Built an event-driven document pipeline using **Gmail API, Google Apps Script, and Pub/Sub** to automatically ingest new emails and trigger downstream processing without manual intervention.
- Integrated **Guidewire AI Connect and OCR** to classify and rename generic scans and photos using content labels, with human-in-the-loop handling for low-confidence results.
- Shipped an internal full-stack test automation platform using **React, Node.js, SQLite, and Playwright**, including a custom execution engine, retries, and intelligent wait strategies for asynchronous workflows across Policy, Claims, and Billing.
- Built and supported backend workflows using **PostgreSQL, Redis queues, REST APIs, and asynchronous processing**, and leveraged **AWS EC2, S3, and RDS** for reliability, monitoring, debugging, and scalability.

Incture Technologies Bengaluru, Karnataka, India
Associate Software Engineer – Products *January 2023 – July 2025*

- Designed and implemented scalable **Java/Spring Boot microservices and REST APIs** for enterprise applications, applying SOLID principles and established design patterns.
- Built **Kafka-based event-driven workflows** for high-volume asynchronous processing and reliable service-to-service integration.
- Developed enterprise integrations with **SAP systems** through REST/OData APIs and SAP HANA to support real-time business workflows and data retrieval.
- Improved application throughput by **30%** by designing concurrent task execution with **ExecutorService**, multithreading, asynchronous processing, and scheduler optimization.
- Implemented secure authentication and authorization using **Spring Security, JWT, and OAuth2**, along with dynamic **Role-Based Access Control (RBAC)**.
- Automated CI/CD pipelines using **Jenkins** and strengthened software quality with **JUnit, TDD, code reviews**, and test coverage of up to **90%**.

Achievements

- Received the **Individual Rising Star Award** at Incture Technologies in **2023 and 2024** for exceptional client delivery, early POC completion, and independent ownership of complex backend solutions.

Technical Skills

Languages: Java (8, 17), Python, JavaScript, SQL
Backend: Spring Boot, Spring MVC, Spring Data JPA, Spring Security, Hibernate, REST APIs, Microservices, Distributed Systems
Architecture: System Design, Event-Driven Architecture, Asynchronous Processing, Multithreading, Design Patterns, SOLID Principles
Databases: PostgreSQL, MySQL, Oracle SQL, Redis, Elasticsearch, SAP HANA
Messaging: Apache Kafka, Google Pub/Sub, SAP Event Mesh
Cloud: AWS (EC2, S3, RDS, Lambda), Google Cloud Platform, BigQuery, SAP BTP
DevOps: Docker, Jenkins, CI/CD, Maven, Git, Azure DevOps
Testing: JUnit, Mockito, Playwright, Test-Driven Development
Practices: Data Structures & Algorithms, Object-Oriented Design, SDLC, Agile Methodology

Education

Veer Surendra Sai University of Technology (Formerly UCE), Burla Odisha, India
Bachelor of Technology in Computer Science and Engineering, CGPA: 8.40/10.0 *August 2019 – May 2023*