Manoj Kumar Sajja

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Professional Summary

Software Development Engineer with 3+ years of experience in building systems using Java, Spring Boot, and AWS. Worked on microservices, contributing to reliable, observable services. Comfortable working in agile teams, supporting design, debugging, distributed systems, and mentoring responsibilities.

Skills and Tools

Programming Languages:	Java, Python, C++
Frameworks & Libraries:	Spring Boot, Guice, JUnit
Architecture & Design:	Microservices Architecture, Event-Driven Architecture, Design Patterns, System Design
Cloud & DevOps:	AWS (Lambda, ECS, S3, SNS, SQS), Kubernetes, CI/CD, Jenkins, Prometheus, Grafana, Git
Databases:	PostgreSQL, DynamoDB, Redshift
Development Practices:	Agile, Code Review, Technical Leadership, Performance Optimization

Work Experience

Software Development Engineer, Zeta **Bangalore | Feb 2024 – Present**

- Built platform for scheduling and automating delivery of custom reports; enabled 200+ daily reports with <1hr SLO for files up to 4.9GB.
- Engineered CRUD APIs for workspace and data source management; onboarded PostgreSQL and Redshift with extensible patterns for future source integrations.
- Built a dynamic search API with complex, customizable filters to allow granular querying in reporting systems; reduced need for multiple endpoint variants.
- Designed approval workflows for publishing connectors in financial systems, enhancing compliance and operational control.
- Collaborated with product and frontend teams to deliver high-throughput REST APIs with strong contract adherence.

Software Development Engineer, Amazon **Bangalore | Feb 2022 – Dec 2023**

- Contributed to building and maintaining orchestration systems for fulfillment and billing of data product orders, supporting nearly 17M daily transactions.
- Automated tax calculation for 3rd-party billing providers (Google, Apple), enabling accurate processing of 2.3M+ orders.
- Developed event-driven architecture using AWS Lambda, SQS, and SNS to support scalable async workflows.
- Implemented validation guardrails to ensure legal state transitions, enhancing reliability and consistency across 19M order workflows.
- Delivered client-specific kill-switch mechanism to bypass payments during outages; reduced customer impact during high-severity incidents.
- Designed traceability infrastructure to ensure end-to-end order visibility and resolution; supported 17M+ successful daily fulfillments.
- Mentored an intern by guiding onboarding, providing training, and supporting him with full project lifecycle from design to implementation.

Projects

Music Generator (GAN) – Developed a GAN-based piano music generator with tuned discriminators and structured output evaluation.

Face Mask Detection – Built a CNN-based face mask detector for real-time inference on Raspberry Pi, optimized for edge environments.

Certifications and Achievements

- Innovation Patent: Low-Cost Mask Detection (Patent No: 2020104124)
- Google Cloud Certifications: Cloud Engineer and ML Tracks

Education

B.E. in Computer Science, N.M.A.M. Institute of Technology **Nitte, Udupi | 2018 – 2022**

Grade: 8.91/10