

SAI AKSHITHA NANDRE

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SUMMARY

Backend Software Engineer with 3 + years building Java-Spring microservices, data pipelines, and cloud-native platforms. Cut latency, lifted accuracy, and upheld 99.9 % uptime for retail and ML products at multi-million-user scale. Blend full-stack expertise, Docker/K8s delivery, and robust automated testing to ship reliable, maintainable code. Eager to channel rigorous TDD and cross-functional acumen into high-impact, resilient customer experiences.

SKILLS

Programming: Java, Python, C++, C#, JavaScript, TypeScript, HTML, CSS, Shell Scripting
Frameworks: Spring Core, Spring Boot, Spring MVC, Hibernate, JPA, JDBC, Angular, React, Mockito
Cloud/DevOps: AWS S3, Glue, Lambda, Redshift, Athena, GCP, Docker, Kubernetes, GitHub Actions, CI/CD
Data/Streaming: PostgreSQL, MySQL, Oracle DB, MongoDB, Redis, Elastic Search, Kafka, Pub/Sub, gRPC, GraphQL
Other: OOPs, Data Structures, Algorithms, System Design, Unix/Linux, Distributed Systems, JIRA, Swagger, JWT, Web Sockets
Certifications: AWS Certified Solutions Architect – Associate

PROFESSIONAL EXPERIENCE

Software Engineer (Contract)

CVS Health Feb 2025 – Present

- Built Spring Boot inventory integration platform with 90%+ JUnit coverage, syncing data for 5000+ CVS stores daily.
- Connected to third-party SFTP, parsed files, and drove 30 % recount accuracy gain via React dashboard for associates.
- Integrated Redis cache and reusable Kafka Pub/Sub module, boosting backend response 40 % and event flow 30 % across services.
- Scheduled batch workflow via cron @Scheduler, aligning nightly ops windows and ensuring timely inventory task completion.
- Dockerized microservices and deployed on Kubernetes, enabling auto-scaling, zero-downtime, and consistently 99.9 % uptime.
- Partnered with analysts to map inventory metrics, enabling leaders to forecast stock needs with 15 % higher precision.

Software Engineer

Cognizant Jul 2021 – Jul 2023

- Architected Google ML Assist features end-to-end, lifting analyst output 80 % and sharpening model training precision.
- Developed microservices with Java, Spring Boot, Angular, and TypeScript, reducing downtime 30 % at 1 M+ user scale.
- Designed Python ETL on GCP Cloud Functions and Pub/Sub processing 1 M+ records daily, feeding real-time loads into SQL.
- Tuned PostgreSQL queries and enforced 90 % JUnit coverage, slicing API latency 30 % and safeguarding robust services.
- Partnered on on-call production support, debugging critical issues and stabilizing services under peak loads.
- Guided three junior engineers via reviews and pair programming, boosting throughput 25 % and sharing clean code practices.

Associate Software Engineer

Madin Life Sciences May 2020 – Jul 2021

- Developed REST services in Core Java and Spring MVC, applying DI & IoC to cut patient-record latency 30 %.
- Optimized 100 + PL/SQL queries using JDBC, Spring Data JPA, and Hibernate, boosting throughput 20 % for critical workflows.
- Led four Agile releases with Scrum rituals and JIRA boards, significantly lifting sprint predictability and team morale.

PROJECTS

CloudRAG

- Engineered RAG pipeline on Kafka streams and Pinecone vectors, surfacing insights 70 % faster via Streamlit GPT UI. Composed Go and Python microservices on AWS EKS multi-AZ, sustaining 99.9 % uptime and raising processing reliability 40 %.

Cloud-Native Web Application

- Launched AWS web platform with EC2, S3, Lambda, RDS, SNS, and ELB, cutting release cycles 60 % through GitHub Actions CI/CD. Automated IaC via Terraform and Packer AMIs, slashing provisioning time 60 % and enabling repeatable, secure deployments.

EDUCATION

University of North Carolina, Charlotte – Charlotte, NC
Master of Science in Computer Science

Aug 2023 – Dec 2024