Nathaniel Nishanth Jason

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Summary

Full Stack Software Engineer with 5+ years of experience in backend and distributed systems. Skilled in Java (Spring Boot), Python, React.js, and cloud-native development (AWS). Strong background in microservices, API design, data pipelines (Spark, Airflow, Kafka), and database optimization. Proven record of modernizing legacy platforms, automating deployments, and delivering production-grade applications.

Technical Skills

Languages: Java, Python, TypeScript, SQL, JavaScript
Frameworks: Spring Boot, React.js, Flask, FastAPI
Data: PostgreSQL, MySQL, DynamoDB, Spark, Kafka, Redis
Cloud/DevOps: AWS (Lambda, ECS, S3, RDS, DynamoDB), Docker, Kubernetes, Terraform, GitHub Actions
Practices: Agile, CI/CD, TDD, Microservices, Event-Driven Design

Experience

Boeing — Seattle, WA
Software Engineer (Contract) — Jan 2024 – Apr 2025

- Refactored a legacy aircraft maintenance system into Spring Boot microservices with a React frontend, enabling modular deployments and faster iteration.
- Built Spark + Airflow pipelines for telemetry analysis, cutting ETL runtimes by 35%.
- Optimized PostgreSQL queries with indexing/partitioning, reducing latency by 40%.
- Automated deployments with Kubernetes and GitHub Actions, achieving zero-downtime rollouts.

Amazon Web Services — Boston, MA
Software Development Engineer — Sep 2022 – Nov 2023

- Modernized an advertising insights platform by migrating monolith services into Airflow DAGs and GraphQL APIs, reducing query latency and eliminating over-fetching.
- Built Java and Node.js microservices integrated with DynamoDB and RDS, serving millions of queries daily with <100ms latency.
- Deployed serverless data workflows using AWS Lambda and Step Functions for large-scale streaming data.
- Reduced incident response time by 25% with CloudWatch monitoring and distributed tracing.

Capgemini — Hyderabad, India
Software Engineer — Jun 2019 – May 2021

- Designed SaaS solutions with Spring Boot, Angular/React, and PostgreSQL.
- Improved API throughput by 30% via Redis caching and DB query tuning.
- Implemented real-time data pipelines with Kafka and MongoDB.
- Delivered production-ready microservices in Agile teams using CI/CD pipelines.

Zomato — Hyderabad, India
Software Engineering Intern — Jan 2019 – May 2019

- Built React dashboards and Flask APIs for restaurant analytics and reporting.
- Automated ETL workflows on MySQL, streamlining operational insights.

Education

University at Buffalo, SUNY — M.S. in Data Science (GPA: 3.83)
Sreenidhi Institute of Technology — B.S. in Computer Science (GPA: 4.0)