Ellis Sentoso

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OBJECTIVE

Software Engineer with experience in backend development and cloud security remediation. I specialize in Java-based microservices, automated test pipelines, and CVE remediation at scale. Skilled in building and optimizing resilient systems through observability tooling, automated testing, and CI/CD processes. I aim to leverage a strong background in Java microservices, automated testing, and cloud security to contribute to the development of resilient, large-scale distributed architectures.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript
Frameworks/Libraries: Spring Boot, Cucumber, React
Tools & Platforms: Git, Jenkins, Docker, AWS, Renovate, Dynatrace, DataDog, Postman, Kibana, Snyk, Harmony, BurpSuite
Methodologies: Agile, CI/CD, Shift-left Testing, Test Automation

WORK EXPERIENCE

Autodesk, Cloud and Licensing Team (CLS) San Francisco, CA
Software Engineer January 2023 - July 2025

- Spearheaded the enterprise migration of 10+ distributed microservices to Java 17 and Spring Boot 3.x, reducing legacy risk and improving runtime stability.
- Developed robust integration and smoke test suites using Cucumber, Mockito, and DynamoDB, automating failure detection across backend APIs and Java-based microservices.
- Drove a security pipeline overhaul, integrating Snyk, BurpSuite, and Renovate to automate patching and reduce critical CVE exposure by over 80% across 10 production environments.
- Delivered an end-to-end legacy dependency migration and test modernization project, resolving 100% of Trust Dashboard vulnerabilities.
- Elevated team productivity by 80% through cross-functional collaboration and documentation, accelerating root cause analysis of critical CI/CD pipeline and deployment regressions.
- Improved service health and uptime through proactive root cause analysis of pipeline regressions, on-call monitoring, and error spike analysis using DataDog dashboards.
- Established real-time observability by implementing Dynatrace for Java microservices and Golang-based AWS Lambda serverless functions, dramatically improving production visibility.

Software Engineering Intern May 2022 - August 2022

- Improved test coverage by 90% and enhanced logging across entitlement services; this logging implementation directly supported operational triaging by enabling detailed analysis of production logs (via Kibana/DataDog), accelerating root cause identification for critical service regressions.

PROJECTS

Gitlet | Git Version Control System

- Designed and implemented a custom version control system supporting commits, merges, and remote synchronization. Emphasized robustness with JUnit-based unit and integration testing.

Ingrained | React Native, Supabase (Postgres) | App Store

- Built an iOS mobile app that implements a Spaced-Repetition System with a default template of 3 attempts to assist learners with ADHD by strategically timing repetitions at Days 0, 3, and 7 to maximize long-term memory retention.

URL Feeder Service | Java, Docker, Docker Compose, MySQL, Kafka, Spring Boot | Github

- Engineered a containerized Java/Spring Boot backend using Docker Compose and Apache Kafka to build an event-driven pipeline for high-throughput URL data processing and message distribution.

EDUCATION

University of California, Berkeley Berkeley, CA
B.A Data Science