

Ermiyas Liyeh

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Full Stack Java Developer with 3+ years building scalable, secure, and testable backend services in financial and cloud-native environments. Proven experience with Java, Spring Boot, REST APIs, Oracle/MySQL, and event-driven architectures. Strong advocate of Agile practices and clean code. Delivered production-grade systems at Amazon and Deutsche Bank, optimizing data flows and ensuring compliance in high-throughput distributed platforms.

Professional Experience

AMAZON WEB SERVICES (AWS)

SEATTLE, WA

SOFTWARE DEVELOPMENT ENGINEER

OCT 2022 – DEC 2023

- Contributed to Sublime, a distributed platform for high-throughput data storage/retrieval, handling 1PB+/day per client.
- Migrated key DynamoDB tables to on-demand capacity, reducing infrastructure cost projections by \$2M+ annually.
- Built internal observability tooling using CloudWatch, P-Met, and Carnival, reducing mean time to repair by 33%.
- Automated on-call runbook generation to improve incident response efficiency during critical events.
- Participated in architectural reviews and production readiness assessments to ensure scalable and secure deployments.

DEUTSCHE BANK

NEW YORK, NY

TECHNOLOGY, DATA, AND INNOVATION ANALYST

JAN 2022 – OCT 2022

- Delivered secure, high-throughput backend features for a regulatory trading platform using Java + Spring Boot.
- Refactored legacy code into modular, reusable libraries adopted across multiple teams, reducing dev time and tech debt.
- Led CI/CD automation efforts, secured audit logging, and enforced infrastructure compliance standards.
- Partnered with risk, compliance, and product teams to meet strict financial data governance requirements.

Education

UNIVERSITY OF ROCHESTER

ROCHESTER, NY

COMPUTER SCIENCE

AUG 2017 – DEC 2021

- **Achievements:** Handler Scholar, CBS NY Diversity Scholar, and Dean's List (Spring 2018 & Spring 2021)
- **Relevant Coursework:** Computation and Formal Systems, Data Mining, Artificial Intelligence, Database Systems, Data Structures and Algorithms, Android Mobile App Developments.

Personal Project

VASFLO ([HTTPS://VASFLO.COM](https://vasflo.com))

REMOTE, MAR 2024 – MAY 2025

- Designed a secure, privacy-first backend for a healthcare platform connecting patients with providers.
- Architected microservices with the saga pattern for transactional integrity across services
- Implemented JWT + OAuth2 security, documented APIs via OpenAPI for partner integration.
- Deployed on AWS using Docker, Eureka, a centralized config server, and a resilient API Gateway.

Skills

- **Languages & Frameworks:** Java 17, Spring Boot 3, Spring Security, REST, Kotlin, Python, SQL
- **Cloud & Infrastructure:** AWS (ECS, EC2, S3, RDS, Lambda, DynamoDB), Docker, Kubernetes
- **Data and Messaging:** PostgreSQL, DynamoDB, MySQL, Redis, Kafka, RabbitMQ, Hibernate
- **Monitoring & Observability:** CloudWatch, Prometheus, Grafana, Zipkin, Sleuth
- **DevOps & CI/CD:** GitHub Actions, Jenkins, Git, BitBucket
- **Architecture:** Microservices, Monoliths, Distributed Systems, Saga Pattern, Event-Driven Design
- **Testing & Quality:** JUnit, Mockito, Integration & E2E Testing