Kevin Saephanh

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Work Experience

Senior Software Engineer, Capital One   *July 2025 - Current*

- Rewrote a Spring Boot microservice to improve maintainability, fix cross-entity bugs, and reduce response times by 80% via pagination, query consolidation, and async processing.
- Instrumented a partner-team Go microservice with OpenTelemetry/New Relic on ECS Fargate, improving debugging for tens of millions of EC2 system messages daily.
- Investigated production 500 errors, identified lazy-loading bottlenecks, and resolved them with targeted JPA queries, reducing response times by up to 90%.

Software Engineer III, JPMorgan Chase   *July 2024 - July 2025*

- Led development of a distributed logging system with Kafka and Oracle, aggregating logs from 10 microservices to enable real-time monitoring and faster incident resolution.
- Optimized batch jobs for 10M+ trade records, reducing runtimes by 20% by consolidating processing into a single microservice and adding async Kafka triggers.
- Implemented a custom Kafka consistent partitioning strategy for a tax processing microservice for improved load distribution, reducing processing time by 15%.

Backend Engineer (Contract), Great Lakes Reality Labs   *Aug 2022 - Feb 2024*

- Rebuilt API from scratch using Nest.js and PostgreSQL, cutting the production timeline for the MVP application by 30%, accelerating time-to-market.
- Built a job matching system that connected students with roles based on skills, location, and other eligibility criteria, allowing companies to efficiently find qualified candidates.
- Developed a subscription system in the API, launching the platform's first revenue-generating feature and establishing a new monetization channel for the company.

Full Stack Engineer, Cognizant   *Jan 2020 - Jan 2024*

- Built and integrated an Angular microfrontend in Salesforce, overcoming file size limitations and enabling continued use of the existing system without a costlier new one.
- Implemented a batch job to remediate data inconsistencies, backfilling and correcting records to unblock audit trails and auto loan investigations.
- Migrated a BFF Spring Boot app behind AWS API Gateway, leveraging its built-in JWT authentication and limiting ingress traffic for downstream microservices.

Education

Georgia Institute of Technology   *Expected 2027*

M.S. in Computer Science - AI Specialization

University of California, Santa Barbara   *2019*

B.A. in Biological Anthropology

Certifications

AWS Certified Solutions Architect - Associate

Skills

Languages: Java, Python, Go, JavaScript/TypeScript

Technologies: Spring Boot, FastAPI, Node.js, React, Angular, SQL, AWS, Docker, Kafka