

Spencer Hamilton - Software Engineer

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Professional Summary

Experienced software engineer with **2+ years** of designing and implementing scalable, high-impact systems. Specializes in cloud technologies (AWS) and backend development with Kotlin and Java. Achieved significant results, including reducing error rates by 80% and boosting operational efficiency by 30% in payment systems. Proven leader in mentoring diverse teams and delivering projects in emerging markets. Ready to drive innovation and optimize system design in fast-paced, tech-driven environments.

Skills

- **Programming Languages:** Advanced in Kotlin, Proficient in Java
- **Cloud Technologies:** Extensive experience with AWS (Lambda, DynamoDB, S3, CloudFormation)
- **DevOps & CI/CD:** CloudFormation, Jenkins, CI/CD pipelines
- **Tools & Frameworks:** Kibana (logging/monitoring), Mockito (testing)
- **Version Control:** Expert in Git
- **Methodologies:** Agile (Scrum/Kanban), SDLC best practices

Professional Experience

Software Development Engineer

Amazon

Mar 2022 - Sep 2024

- **Centralized Errored Responses Database:**
Spearheaded the design and implementation of a centralized database for errored responses from partner banks, automating error handling and cutting on-call load by 30%.
Technologies: CloudFormation, DynamoDB, Lambda.
- **Government Reporting and Compliance:**
Orchestrated automated compliance reporting for the Brazilian government, slashing reporting errors from ~85% to below 5%.
Technologies: Lambda, S3, EventBridge, DynamoDB.
- **Legacy System Refactoring & Automation:**
Optimized legacy systems by refactoring code, reducing on-call tickets by 20%. Automated infrastructure provisioning through CloudFormation, improving deployment efficiency and eliminating manual errors.
Technologies: CloudFormation, SNS, SQS, Lambda.

Software Development Engineer, Intern

Amazon

May 2021 - Aug 2021

- Designed and implemented an outage scheduling system for online payment processors using DynamoDB, AWS Lambda, CDK, and EventBridge Rules, automatically hiding payment options from customers when a processor was unavailable.
- Created a mock EventBridge client package with Mockito and Dagger2 to expedite dependency-injected unit testing, improving testing efficiency.

Front-End Developer

Blum Center for Developing Economies

Aug 2019 - Mar 2022

- Revamped the Big Ideas Contest website using WordPress, HTML, and CSS, boosting session duration by 20% and retention by 10%.
- Developed a comprehensive style guide to maintain design consistency amid high annual staff turnover, improving onboarding and reducing inconsistencies.

Software Engineer Intern

Science System Solutions

Feb 2020 - Jul 2020

- Built a drone pathing simulator in Simulink, reducing data generation time by 30% and improving simulation accuracy.

Research Assistant

San Diego Supercomputing Center

Jun 2018 - Jul 2019

- Simulated quantum molecular interactions using Comet XSEDE, optimizing pollution filtration systems by 15%.

Academic Intern

CS61A at UC Berkeley

Jun 2019 - Aug 2019

- Created and taught course materials on data structures and algorithms, enhancing student understanding and improving test scores.

VP of Internal Affairs, Web Team Lead

Innovative Design

Jun 2018 - Jul 2019

- Led a team of 10+ engineers, successfully delivering 5+ client projects, improving team productivity by 25%.
- Managed web design and development projects while mentoring a team and maintaining client relationships.

Education

B.S. in Electrical Engineering and Computer Science

University of California, Berkeley