

Luke Anderson

Seattle, WA

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Objective

Backend Engineer passionate about designing reliable, scalable distributed systems and cloud-native applications.

Education

University of California, Berkeley

Master of Science in Electrical Engineering and Computer Sciences (EECS) Aug 2022 – May 2024

Relevant Coursework: Cloud Computing, Distributed Systems, Advanced Databases, Software Architecture

University of California, Berkeley

Bachelor of Science in Electrical Engineering and Computer Sciences (EECS) Sep 2018 – May 2022

Relevant Coursework: Operating Systems, Algorithms, Computer Networks

Senior Thesis: Performance Optimization in Microservices Architecture Using AWS

Experience

Amazon

Seattle, WA

Software Development Engineer (SDE)

Jul 2022 – Present

- Designed backend services for Amazon Prime using Java (Spring Boot) and AWS ECS.
- Led migration of monolithic systems to microservices architecture, enhancing scalability and resilience.
- Optimized PostgreSQL queries and caching strategies, reducing average latency by 20%.
- Built internal automation pipelines with Terraform and AWS CodePipeline.
- Partnered with site reliability teams to implement distributed tracing and improve observability.
- Mentored two backend engineers, promoting best practices in code review and cloud deployments.

Skills

Backend: Java, Python, Spring Boot, Node.js

Database: MySQL, PostgreSQL, DynamoDB

Cloud: AWS EC2, ECS, Lambda, CloudFormation

DevOps: Docker, Kubernetes, Terraform, Git

Honors

2024: Amazon "Deliver Results" Award

2021: Winner, CalHacks Hackathon