

# Abas Farah

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## EDUCATION

### Bachelor in Computer Engineering

University of Minnesota

Dec 2023

Minneapolis, MN

- **Coursework:** Data Structures, Algorithms, Operating Systems, Computer Architecture
- **Clubs:** Competitive Programming Club (President) - Founding member

## EXPERIENCE

### Amazon Web Services

Software Development Engineer

Apr 2024 – Present

Austin, TX

- Architected and implemented a **99.99%** available distributed system using AWS Lambda, SQS, and SNS to process real-time health metrics across **Amazon's global infrastructure**, enabling comprehensive monitoring and alerting capabilities.
- Engineered BMC firmware supporting **NVIDIA Grace Blackwell accelerators**, implementing firmware updates and telemetry features, enabling **new server offerings** for customers.
- Developed a **fullstack** React and Java web app for monitoring BMC health and reachability across accelerator platforms, and streamlined metrics visualization.

### Amazon Web Services

Software Engineering Intern

Jun 2023 – Aug. 2023

Austin, TX

- Architected regional AWS-based data pipeline using Kinesis, Lambda, SQS, and CloudWatch, enhancing **real-time** data analytics and Monitoring.
- Used AWS CDK to **programmatically** build AWS cloudformation infrastructure using typescript.

### Google

Software Engineering Intern

May 2022 – Aug. 2022

Sunnyvale, CA

- Created a **Kubernetes** Custom Resource Definition to store conformance results by building a workload docker image and interfacing with the Kubernetes API using client-go.
- Created a **conformance workload** that caught issues on new GKE releases using Golang by running CNCF tests on a GKE cluster.

### Coinbase

Software Engineering Intern

May 2021 – Aug. 2021

Sunnyvale, CA

- Developed automated CLI tool in Golang that slashed project setup time **from 3 days to 15 minutes** for event-driven architecture deployments, significantly accelerating team delivery cycles.
- Created multiple templates of different projects that standardized project design and application load balancer configurations utilizing **Golang, Protobuf, gRPC and AWS**.

## TECHNICAL SKILLS

**Languages :** Python, JavaScript/Typescript, Java, HTML/CSS, SQL (PostgreSQL, MySQL), C++, Golang

**Frameworks/Technologies:** Node.js, React, Spring, Docker, Kubernetes, GraphQL, AWS, Git, Bash, Unix, Scrum, Open-Source Development