

Ayub Farah

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EDUCATION

University of Houston

Bachelor of Science in Mathematics, Computer Science

Houston, TX

(Expected) May 2026

EXPERIENCE

Cisco Meraki

Software Engineering Intern

May 2025 – August 2025

San Francisco, CA

- Built a frontend interface for filtering and searching firewall rules in the Cisco Meraki Dashboard using **TypeScript** and **Redux**.
- Implemented backend API routes in **Ruby on Rails** to support advanced rule filtering and search queries.
- Integrated **OpenAI ChatGPT API** to enable natural language-driven rule searches, allowing users to auto-generate and populate form fields from plain-text descriptions.

Amazon Web Services

Software Development Engineering Intern

May 2024 – August 2024

Santa Clara, CA

- Streamlined user membership deletion management as part of the latest release of AWS Clean Rooms ML.
- Created **AWS Lambda** handlers, tests, modules, and proxies (with **Dagger**) in **Kotlin**.
- Designed and deployed cloud infrastructure with AWS CDK in TypeScript, and wrote unit and integration tests.
- Integrated resources across teams using a relay built with **AWS DDB Streams**, **AWS SQS** and **AWS SNS**.

Amazon Web Services

Software Development Engineering Intern

June 2023 – August 2023

Santa Clara, CA

- Developed a resource metadata viewer application utilizing **AWS Lambda & DynamoDB**, enhancing accessibility and efficiency for the engineering team's resource management.
- Implemented role-based access control using **AWS IAM**, ensuring secure and streamlined access for team members within the resource metadata viewer application.
- Enhanced the team's ticket management application with **React** and **Python**, integrating crucial edit functionalities to streamline the ticketing process and improve team productivity.

PROFESSIONAL DEVELOPMENT

Google

Computer Science Summer Institute (CSSI) Scholar

July 2022 - August 2022

Remote

- Participated in a 4-week intensive computer science summer program for high-achieving students.
- Completed an introductory project-based HTML/CSS and JavaScript curriculum taught by Google engineers.
- Attended product design, resume development, and software engineering interview workshops.
- Delivered a collaborative final project presentation that included a live demonstration to Google employees and community leaders.

PROJECTS

Turms | *WebSocket API, Go, React, JWT, MongoDB, TypeScript*

- Created a real-time messaging app using the **WebSocket API**.
- Implemented secure user session management with encrypted **JWTs** for heightened privacy.
- Created a dynamic chat room system with automated lifecycle management using **Go** and **MongoDB**.
- Designed a dynamic and responsive frontend using **TypeScript** and **React**.

TECHNICAL SKILLS

Languages: Python, TypeScript, Ruby, Kotlin, Go, PostgreSQL, R

Frameworks: React, Node.js, Flask, Express, Ruby on Rails, Redux

Libraries: pandas, NumPy, Matplotlib, Dagger, JUnit, Jest, Rspec