

DAWOUD MAHMUD

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EDUCATION

Georgia Institute of Technology

M.S. Computer Science

Atlanta, GA

Expected Graduation: December 2026

University of California, Irvine

B.S. Computer Science, Minor in Mathematics

Irvine, CA

Graduated: June 2022

Certifications: [AWS Certified Cloud Practitioner](#)

Received: June 2024

SKILLS

Languages: Python, C++, Java, Go, JavaScript, HTML/CSS

Tools: Docker, Terraform, Java Database Connectivity (JDBC), Git, AWS Lambda, API Gateway, Cloud Computing

Frameworks: React, SpringBoot, Vue, Bootstrap, Node

Databases: SQL, MySQL, NoSQL, DynamoDB

EXPERIENCE

Contributor and Maintainer

May 2023 - Nov 2023

Open Source: [terraform-provider-mikrotik](#)

San Francisco, CA

- [PRs [#1](#), [#2](#)] Leveraged terraform provider SDK and implemented client logic to add new resource types (Wireguard [Interface](#), [Peer](#)) to enable **terraform's resource management** for RouterOS VPN settings
- Wrote CRUD functions for each resources' router settings in **Go** and created tests to ensure functionality
- Defined the schema for each resource and leveraged client code to manage the state of a Mikrotik router
- Constructed **readme** pages to provide detailed instructions on how to use and test each feature

Software Engineering Intern

May 2021 - Sep 2021

Extron Inc.

Milpitas, CA

- Analyzed legacy shipping platform in order to create design document, reviewed and improved by internal stakeholders, outlining requirements for a replacement solution
 - Synced daily with engineering team in India responsible for software development of the new system, ensuring requirements were understood and deliverables were met on time
 - Developed and tested a set of **80+ user journeys** per sprint to verify software met outlined business requirements
 - Directed project to **75% completion**, presented system overview to upper management, and outlined remaining deliverables
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PROJECTS

QuickLink

Dec 2023 - Jan 2024

URL Shortener (<https://dawoudmahmud.com/quickLink>)

San Francisco, CA

- Engineered a serverless architecture using **AWS Lambda** and **API Gateway** for URL shortening and redirection
- Integrated **DynamoDB** as a scalable NoSQL database for storing URL mappings and tracking hit counts
- Implemented infrastructure deployment and management using **Terraform**, incorporating **AWS Certificate Manager** for HTTPS and Route 53 for DNS
- Established an **automated deployment** workflow, enabling updates to Lambdas with a command using a custom **bash script**

FabFlix

Jan 2022 - Aug 2022

Movie Searching Website ([Video Demo](#))

UC Irvine

- Developed a full-stack website called FabFlix that allows users to register and login in order to **search** for over 5000 movies with various parameters incorporating **pagination** to display limited movies at a time
 - Incorporated **Java** with **Spring Boot** framework for the backend, **React** for the frontend, and **MySQL** for the database using **JDBC** to connect the database with the backend
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