

# 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*

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## SKILLS

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

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

**Frameworks:** React, SpringBoot, Vue, Bootstrap, Node

**Databases:** SQL, MySQL, NoSQL, DynamoDB

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## 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 upon handing it off due to completion of internship
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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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