DAWOUD MAHMUD

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EDUCATION

University of California, Irvine   *Irvine, CA*
B.S. Computer Science, Minor in Mathematics   *2022*

EXPERIENCE

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 at least 80 user journeys per sprint to verify that the software met the 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

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** management of 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

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 seamless updates to Lambda functions with a single 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
- Designed a preview of each selection with an overview and image of the movie

SKILLS

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

Tools: Docker, Terraform, Java Database Connectivity (JDBC)

Frameworks: React, SpringBoot, Vue, Bootstrap, Node

Databases: SQL, MySQL, NoSQL, DynamoDB