DAWOUD MAHMUD

dawoud.mahmud@gmail.com | (510) 505-4624 | LinkedIn | GitHub | Website

EDUCATION

University of California, Irvine — **Irvine, CA**
B.S. Computer Science, Minor in Mathematics — *Graduation: June 2022*
Mahidol University International College — **Bangkok, Thailand**
Study Abroad — *August-December 2021*

SKILLS

Languages | Tools: C/C++, Go, Java, Python, JavaScript, HTML/CSS | Docker, Terraform
Frameworks: React, SpringBoot, Vue, Bootstrap
Databases: SQL, MySQL, Java Database Connectivity (JDBC)

PROJECTS

Contributor to terraform-provider-mikrotik

- [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

Movie Searching Website (Video Demo)

- 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

Study Abroad Website (https://dawoud-studyabroad.netlify.app/**)**

- Constructed a multi-page website using **Vue JavaScript** framework
- Created captions to give a brief description detailing each image to enhance the user experience

Data Structures Projects (https://github.com/DawoudMahmud/DataStructures-Projects**)**

- Analyzed sorting algorithms such as insertion sort, merge sort, shell sort, and hybrid sort by developing and testing them on real-world data for project 1 with **C++**
- Implemented and tested bin packing algorithms such as Next-fit, First-fit, and Best-fit in O(nlogn) time to minimize the amount of waste in each bin then wrote a report on my findings for project 2 with **C++**
- Evaluated various graph algorithms such as diameter algorithm, clustering-coefficient algorithm, and degree-distribution algorithm to determine properties of real-world networks for project 3 with **C++**

EXPERIENCE

Extron Inc., *Software Product & QA Intern* — **May 2021 - September 2021**

- 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