

DAWOUD MAHMUD

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

Master's student in Computer Science with a strong foundation in backend systems, cloud infrastructure, and AI/ML. Experienced in reinforcement learning, DevOps, and distributed systems through academic and real-world projects. Actively seeking software engineering internships and full time roles to build scalable and impactful technologies.

TECHNICAL SKILLS

Languages: Python, C++, Java, Go, JavaScript

Frameworks: React, Spring Boot, Node.js, Vue.js

Tools: Docker, Git, Postman, VSCode

Concepts: Multithreading, Distributed Systems, Cloud Architecture

Databases: SQL, MySQL, DynamoDB, NoSQL

DevOps: AWS Lambda, Terraform, Kubernetes, CI/CD

EDUCATION

Georgia Institute of Technology - Atlanta, GA *M.S. Computer Science, Machine Learning (In Progress, 3.8 GPA)*

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

Certifications: [AWS Certified Cloud Practitioner](#)

PROJECTS

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

- [PRs [#1](#), [#2](#)] Developed Terraform resource logic for RouterOS VPN (Wireguard [Interface/Peer](#)) used by 100+ engineers
- Authored robust unit tests and documentation to support open-source adoption and community contributions

Strategy Learner for Stock Trading (Reinforcement Learning)

- Built a **Q-Learning-based strategy learner** to optimize trading decisions on historical JPM stock data
- Engineered technical indicators (**MACD**, **Momentum**, **EMA**) to generate dynamic buy/sell/hold signals
- Tuned hyperparameters to outperform manual strategy by **55%** in Sharpe ratio
- Visualized trades and returns using **Matplotlib** and evaluated performance across multiple market scenarios

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

- Developed a full-stack website 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
- Automated testing using **JUnit testing** to ensure accuracy throughout the user journey

EXPERIENCE

Specialist

Apple, Inc.

Aug 2024 - Present

Santa Clara, CA

- Delivered high-quality support to 200+ customers, achieving perfect Net Promoter Scores across 64 consecutive interactions
- Identified business needs of 63+ small businesses and matched them with Apple solutions, generating \$72K+ in sales
- Collaborated with operations and logistics teams to reduce Genius Bar wait times through feedback and scheduling tools

Freelance Software Engineer

Remote - Contract Projects for Small Businesses

Jan 2023 - Jun 2023

- Built and deployed Python APIs connecting e-commerce storefronts to inventory databases, enabling real-time order tracking
- Designed automated workflows with SQL and Pandas to clean and visualize sales data, cutting manual reporting time by 40%
- Created lightweight, responsive React dashboards so non-technical clients could monitor KPIs without developer assistance

Software QA Engineer Intern

Extron Inc.

May 2021 - Sep 2021

Milpitas, CA

- Documented and presented new system architecture for legacy shipping platform, adopted by senior engineers
- Tested 80+ user journeys per sprint to ensure alignment with business requirements
- Spearheaded replacement of legacy shipping platform to **75% completion** and outlined next-phase deliverables