Saalim Abdi

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EDUCATION

University of California San Diego — San Diego, CA
Bachelor of Arts in Computer Engineering — *Sep. 2024 – Present*

San Diego Mesa College — San Diego, CA
Associate's in Computer Science and in Mathematics — *Fall. 2022 – June 2024*

WORK/LEADERSHIP EXPERIENCE

Tutor — May 2020 – Present
Kumon Math and Reading Center — *San Diego, CA*

- Provided one-on-one tutoring for students in math and reading
- Assisted in grading assignments and organizing materials to maintain an efficient learning environment
- Developed patience and adaptability while working with diverse learners

SECRETARY — MUSLIM STUDENT ASSOCIATION — Feb 2023 – May 2024
San Diego Mesa College — *San Diego, CA*

- Maintained accurate records of all board meetings, including minutes, official documents, and notes
- Created and maintained a centralized archive of organizational documents, improving information accessibility and onboarding for new members
- Collaborated with cross-functional teams (event organizers, exec board, university staff) to plan and execute events, enhancing communication and project planning skills

PROJECTS

IoT Wardrobe Management Dashboard | *FastAPI, SQLite, MQTT, Docker, HTML/CSS/JS*

- Built a full-stack dashboard enabling secure IoT wardrobe device management and real-time sensor monitoring
- Engineered user authentication with session handling, device registration, and protected route access
- Integrated MQTT for live ESP32 data streaming and visualized it interactively with Chart.js
- Implemented AI assistant via OpenAI API to recommend outfits based on weather and wardrobe sensor data
- Optimized security with session-based access control and designed a responsive, mobile-friendly UI

HTTP Chat Server | *C, HTTP Protocol, Memory Management*

- Developed a lightweight HTTP server to handle real-time chat messages and reactions over custom endpoints
- Implemented HTTP parsing, URL decoding, and proper request routing in C
- Supported 100,000+ messages/reactions using efficient memory allocation and linked list data structures
- Ensured robustness through thorough error handling and memory cleanup

Contact Manager | *HTML, CSS, JavaScript*

- Built a front-end contact manager enabling add/view/delete functionality with persistent local storage
- Designed an intuitive and responsive UI to ensure seamless user interaction across devices
- Implemented modular JavaScript for clean DOM manipulation and event handling
- Deployed the app via GitHub Pages with configured static routing and hosting

TECHNICAL SKILLS

Languages: Python, C++, SQL, JavaScript, HTML/CSS
Frameworks: React, Node.js, FastAPI
Developer Tools: Git, Docker, VS Code, Visual Studio