



MODUPE AWOJUYIGBE

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EDUCATION

University of Texas San Antonio

- Bachelor of Science in **Computer Engineering** – GPA: **3.8/4.0**

San Antonio, TX

May 2027(Expected)

Relevant Coursework: Digital Logic Design, Data Structures and Algorithms, Embedded Systems, Micro Computer Systems

PROFESSIONAL EXPERIENCE

Code Path Web Development

February 2024 – August 2024

Developer Intern/ Technical Fellow, San Francisco, CA

- Engineered a fully functional fashion web application utilizing **HTML**, **CSS**, **JavaScript**, and **Flexbox**, which was used by over **100+** users at launch
- Implemented backend functionality using **Firestore Authentication**, **Storage** and **Cloud Firestore** for database management, enhancing data retrieval efficiency by **40%**.
- Mentored junior developers in technical workshops, conducting code reviews and providing actionable feedback.
- Led weekly technical demos to for diverse stakeholders, effectively translating complex engineering decisions.

Scholist App

Full Stack Developer Intern, Dallas, Tx

May 2023 – August 2023

- Initiated the design process for a start-up scholarship platform application using **Figma**.
- Implemented front end elements using **JavaScript** and **CSS**, effectively translating design concepts into a functional webapp.
- Developed a suite of RESTful APIs using **Express.js** and **Node.js** for user authentication and scholarship data retrieval.
- Engineered a personalized scholarship recommendation engine using **Vertex AI Agent builder**, increasing user engagement by **50%** and improving the overall user experience.
- Created a high- performance web scraper utilizing **Google’s Programmable Search Engine API** to aggregate scholarship data from **200+** sources.
- Implemented **Streamlit** components for rapid prototyping of user-facing features, accelerating development cycle by **40%**.

University of Texas at San Antonio

Teaching Assistant / Peer coach, San Antonio, Tx

August 2024 – Present

- Provided technical mentorship to over **50+** students in foundational engineering and STEM courses.
- Delivered personalized tutoring sessions for students enrolled in **Calculus**, **Physics**, and **Programming** courses, emphasizing practical applications in engineering concepts.
- Created supplementary learning materials to illustrate real-world engineering applications of theoretical concepts.
- Overall increased number of returning students by **60%** due to learnings from my teachings.

SKILLS & CERTIFICATIONS

- **Technical Skills:** C, C++, Python, JavaScript, HTML, CSS, Streamlit, Jest, Flexbox, MATLAB, Mongo DB, Cloud Firestore, SQL, Firebase, Firebase authentication, Git, GitHub, VS Code, JIRA, Microcontrollers, embedded systems, Sensor integration, Google Cloud Platform.
- **Business skills:** Technical Communication, Cross-functional Team Collaboration, Project Management, Mentorship.
- **Organizations:** Society of Women Engineers (SWE) , National Society of Black Engineers (NSBE), IEEE, Girls Who Code (GWC), Rewriting the Code (RWC).
- **Awards:** President’s List, Dean’s List, Women in Toys Scholar, Klesse College Scholar.

TECHNICAL PROJECTS

Autonomous Line Tracking Vehicle

Fall 2024

- Engineered a fully autonomous mini vehicle utilizing infrared sensors and C++ programming to enable precise path detection and following capabilities.
- Designed and implemented a control system architecture integrating microcontrollers with motor drivers to achieve responsive navigation with **<2ms** latency.
- Documented comprehensive technical specifications, system architecture, and implementation methodology for future reference and knowledge sharing.