MOYINOLUWA ADELOWO

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EDUCATION

Alabama A&M University, Expected May 2027   Normal, AL
Bachelor of Science, **Mechanical Engineering**; Minor in **Computer Science**; **4.0**/4.0 GPA
Relevant Coursework: Computer-Aided Design, Engineering Programming & Analysis, Material Science, Statics

TechWise by TalentSprint, sponsored by Google, Expected September 2025
Software Engineering. Selected for a highly competitive Google-sponsored 18-month software engineering program.

AltSchool Africa   `   Ibadan, Nigeria
Diploma in **Software Engineering**; Concentration in **Backend Engineering**; **3.7**/4.0 GPA   April 2022 – June 2023
Relevant Coursework: Intro to Web Development, Backend Engineering, Restful API Development. Technical Writing

TECHNICAL SKILLS AND SOFTWARE PROFICIENCIES

Programming Languages: Python • JavaScript • TypeScript • HTML • CSS

Frameworks, Libraries, & Databases: React.js • Next.js • Node.js • Django • MongoDB • PostgreSQL

Tools & Technologies: Git • GitHub • Microsoft Office • Arduino Programming • SolidWorks • Solid Edge • MATLAB • Simulink (in progress)

WORK EXPERIENCE

Summer 2024   **UCI Robot Ecology Lab**   Irvine, CA
Undergraduate Researcher.

- Designed and 3D-printed adjustable and fixed ramps using SolidWorks, AnkerMake, and Prusa 3D Printer, facilitating collaborative transportation between the TurtleBot and GritsBot.
- Developed MATLAB algorithms for collaborative mobility deployed on real robotic hardware in the Robotarium.
- Assembled the TurtleBot3 Waffle Pi and integrated it with the Vicon motion capture system, utilizing ROS2, ROS-Vicon bridge, python, and C++ to build packages, custom nodes, and publishers for seamless system integration.
- Presented research on collaborative robotic mobility at a symposium showcasing the project's innovations, findings, and next steps.

May 2023 – August 2023   **Oluadepe Farms Nigeria Limited**   Ibadan, Nigeria
Software Engineering Intern

- Actively participated in weekly mentorship meetings, optimizing project workflows and enhancing team productivity.
- Developed and implemented backend and API functionalities using Node.js, Express.js, and MongoDB, reducing the debugging time by 10% through an innovative error-handling process.
- Increased product reliability by 20% through comprehensive unit, integration, and end-to-end testing using Jest and Supertest.

PROJECT EXPERIENCE

July 2024 – August 2024   **Cat-A-Log**   Remote
- Led a team of five as a project manager, utilizing Jira to assign tasks, track progress, and ensure timely completion of the minimum viable product for an AI-powered web app that classifies cat images based on breed and pattern rarity and creates trading cards.
- Developed and integrated the authentication system using Django, connecting it seamlessly with the React front end to ensure secure user access and data management.
- Containerized the full-stack application with Docker and managed the deployment process, optimizing the application's scalability.

April 2024   **AAMU-Deloitte Cyber Cup Competition**   Normal, AL
- Gained hands-on experience with real-world cyber-attack scenarios, improving defensive and offensive cybersecurity skills.
- Ranked in the top five teams by using Python and Kali Linux to decrypt files, decode text, and perform various operations, showcasing strong problem-solving abilities.

May 2023 - June 2023   **Bub It**   Live site
- Designed and developed a URL shortener web application with features like QR code generation, advanced analytics for user insights, and custom URL creation.
- Implemented a pixel-perfect frontend from the design using React.js and SCSS and integrated it with the backend.
- Employed test-driven development while developing RESTful APIs for the backend using Node.js, Express.js, and MongoDB, ensuring users' data protection and reducing the development time by 12%.

ACTIVITIES AND HONORS

International Chair, Alabama A&M University (AAMU) National Society of Black Engineers Chapter • AAMU Special Projects Laboratory Member • AAMU Vex Robotics Member • ASME Member • GDSC Member • Dean's List; 2024 • AAMU Presidential Scholarship Award • AAMU Honors Program • TechWise Fellow • ColorStack Member • Codepath Student • Thurgood Marshall College Fund Scholar • NASA Human Rover Exploration Challenge and Formula SAE