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, Engineering 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   Lagos, Nigeria
Software Engineering. Diploma 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 • C++ (in progress) • 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 3D-printed adjustable and fixed ramps using SolidWorks to facilitate collaborative transportation between robots
- Developed MATLAB algorithms for collaborative mobility deployed on robotic hardware in the Robotarium.
- Assembled the TurtleBot3 Waffle Pi and partially integrated it with the Vicon motion capture system, utilizing ROS2, python, and C++ to build packages, nodes, and publishers for seamless integration.

May 2023 – August 2023   **Oluadepe Farms Nigeria Limited**   Remote
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

September 2023 – Present   **NASA Human Rover Exploration Challenge and Formula SAE**   Normal, AL

- Collaborated with other team members to design a task tool using SolidWorks to perform various tasks during the Rover Challenge.
- Implemented turning, facing, chamfering, drilling, and threading on a Lathe machine to build screws and other designed parts.
- Contributed to writing detailed reports on subsystems of the Rover and FSAE.

July 2024 – August 2024   **Cat-A-Log**   Live link

- 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 to AWS, optimizing the application's scalability.

May 2024   **Meme Generator**   GitHub Link

- Collaborated with a team in a two-hour hackathon to develop a meme generator using Python's Pygame library,
- Applied Object-Oriented Programming (OOP) principles to efficiently handle image and text rendering and user interactions.

December 2023 - February 2024   **Platinum Beam**   Live link

- Developed a responsive full-stack web application for a cleaning service agency using React, ensuring a user-friendly experience.
- Designed and integrated a custom booking system that allows customers to schedule services directly through the platform, improving client engagement and streamlining service bookings.
- Built and integrated backend services using Node.js, Express.js, and MongoDB, enabling efficient data management.

LEADERSHIP, 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