MOYINOLUWA ADELOWO

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EDUCATION

Alabama A&M University, Normal, AL
Expected Grad: May 2027
Bachelor of Science in Mechanical Engineering; Minor in Computer Science; 4.0/4.0 GPA
Relevant Coursework: Computer-Aided Design, Engineering Programming, Engineering Analysis, Material Science, Statics, Strength of Materials, Intro to Programming, Discrete Structures, Linear Circuit Analysis

TechWise by TalentSprint, sponsored by Google
Expected Grad: September 2025
Software Engineering. A highly competitive Google-sponsored 18-month software engineering program.
Relevant Coursework: Computational Thinking, Foundations of AI/ML, Data Structures and Algorithms, Web Development

TECHNICAL SKILLS AND SOFTWARE PROFICIENCIES

Programming Languages: Python, JavaScript, TypeScript, HTML, CSS, C++
Frameworks, Libraries, & Databases: Next.js, React.js, Redux, Node.js, Django, MongoDB, PostgreSQL, Pandas, NumPy, Matplotlib, Sklearn, Arduino
Tools & Technologies: Git, GitHub, Microsoft Office (Word, Excel, PowerPoint, Power BI), SolidWorks, Solid Edge, MATLAB, Ansys

WORK EXPERIENCE

UCI Robot Ecology Lab, Irvine, CA
Summer 2024
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 a swarm robotics testbed.
- Assembled the TurtleBot3 Waffle Pi and partially integrated it with the Vicon motion capture system, utilizing **ROS2**, **Python**, and **C++**.

Oluadepe Farms Nigeria Limited
May 2023 – August 2023
Software Engineering Intern
- Developed **scalable REST APIs** using **Node.js**, **Express.js**, and **MongoDB**, ensuring secure data management and system reliability.
- Increased **product reliability by 20%** through comprehensive unit, integration, and end-to-end testing using **Jest** and **Supertest**.
- Actively participated in weekly mentorship meetings, optimizing project workflows and enhancing team productivity.

PROJECT EXPERIENCE

DataSpark Hackathon | Python, Pandas, NumPy, Matplotlib, Sklearn
February 2025
- Developed **high-performing machine learning models** with optimized feature engineering and hyperparameter tuning, achieving the best **ROC AUC score** in just 5 hours.
- Secured **1st place** in the hackathon by effectively collaborating in a team of 3 to deliver the most accurate predictions.

MasterCard & AUC Data Challenge | Python, NumPy, Pandas, Matplotlib, Sklearn
October 2024
- Conducted in-depth **exploratory data analysis** on over 1.5 million entries from the Mastercard Inclusive Growth Score (IGS) using **Python, NumPy,** and **Matplotlib** on **Google Colab**, identifying key factors influencing economic disparities.
- Built **predictive models** using machine learning techniques to simulate targeted improvements, resulting in actionable strategies for increasing IGS in low-scoring regions.
- Visualized insights through heatmaps, PCA plots, and geographic maps using **Matplotlib** and **Seaborn**.

Cat-A-Log | React, Django, Docker, AWS, PostgreSQL, OpenAI
July 2024 – August 2024
- Led a team of five as a **project manager**, using **Jira** to assign tasks, track progress, and manage development timelines.
- Oversaw the creation of an **AI-powered web app** that classifies cat images by breed and pattern rarity and generates unique 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.

Stellar Eminence | Next.js, TypeScript
February 2024 - May 2024
- Led a team of developers in building the frontend of a startup's website using **TypeScript** and **Next.js**, ensuring code quality.
- Integrated backend **APIs** to enable key functionalities, enhancing the website's overall user experience and performance.

LEADERSHIP, ACTIVITIES, AND HONORS

• International Chair, AAMU National Society of Black Engineers Chapter • AAMU Special Projects Laboratory Member • xTechHBCU Finalist
• AAMU Vex Robotics Member • GDSC Member • Dean's List Award 2024 • AAMU Presidential Scholarship Award • AAMU Honors Program
• ASME Member • ColorStack Member • TechWise Fellow • Codepath Student • Thurgood Marshall College Fund Scholar