Fadlulah Ademola Omitogun

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Education

University of Maryland, Baltimore County Graduation Date: May 2027

BS Computer Engineering | BS Mathematics

- GPA: 3.814

Relevant Skills

Languages: JavaScript, HTML, CSS, Python, C++/C, SQL

Hard Skills: PyTorch, Tensorflow, LTspice, REACT, Angular, Tailwind CSS, Bootstrap, FastAPI, Matlab, Maple, Parallel Computing

Experience

CodePath June 2025 to Present

Student Ambassador

- Built partnerships with NSBE, IEEE, and campus tech organizations, expanding CodePath's presence and supporting diverse student participation in technical pathways.
- Coordinated campus-wide outreach campaigns that reached 200+ students

UMBC Department of Mathematics and Statistics Sep. 2024 to Present

Undergraduate Teaching Assistant (Multivariable Calculus, Introduction to Mathematical Reasoning, Introduction to Mathematical Analysis I)

- Led weekly discussions for 20–30 students, improving comprehension and participation, which contributed to higher average quiz performance across sections.
- Held weekly office hours, providing one-on-one guidance that supported stronger exam outcomes and positive course evaluations.

TANTV Feb. 2024 to May 2024

Intern Software Developer

- Designed and deployed a responsive front-end interface for Syndex using React and Tailwind, enabling seamless access across desktop and mobile platforms.
- Implemented secure authentication features (sign-in/login), reducing login errors by 20% and improving user retention.
- Built automated tests that decreased post-deployment bug reports by 15%, ensuring reliable multi-device compatibility.

Research

Clemson University Jun. 2025 to Jul. 2025

Clemson STEM REU

- Trained a regression model with PyTorch to predict laminate snap-through loads, achieving 85% accuracy and enabling researchers to optimize carbon-fiber design.
- Conducted experiments on bistable laminates, validating model predictions and presenting findings at the 12th Annual Summer Undergraduate Research Symposium.
- **Presentations:** Applying Machine Learning to Predict the Snap-Through Behavior of Bistable Carbon Fiber Laminates (12th Annual Summer Undergraduate Research Symposium)

University of Maryland, Baltimore County Feb. 2024 to Jan. 2025

Data Management and Semantics Research Group

- Built an interactive research website using React and Tailwind, improving accessibility for collaborators and end-users.
- Developed a monitoring system with Lidar sensors, enabling real-time occupancy analysis and data collection.
- **Presentations:** Lidar Occupancy Analysis And Detection System - LOADS (URCAD 2024 poster)

Projects

AI4ALL Ignite Accelerator May 2025 to Aug. 2025

Machine Learning Research Project

- Developed a Random Forest classifier in scikit-learn to predict startup success by industry, country, and funding rounds, achieving 93% accuracy.
- Preprocessed and analyzed 66k+ Crunchbase records with pandas and matplotlib, improving dataset usability for robust model training.
- Addressed class imbalance using SMOTE-ENN and fine-tuned hyperparameters, increasing model reliability as shown by improved F1-scores.
- Deployed the model as a FastAPI endpoint with joblib, integrating it into a React web application for streamlined user access.

Coursework

Introduction to Machine Learning, Data Structures, Quantum Computing Algorithms and Applications, Introduction to Parallel Computing, Mathematical Modeling, Principles of Electronic Circuits, Systems Design and Programming, Statistics and Random Processes