Oluwakanyinsola Erinle

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EDUCATION

Alabama State University Expected May 2027

Bachelor of Science in Computer Science; 4.0/4.0 GPA

Relevant Coursework: Intro to Computer Science• Discrete Mathematics • Object Oriented Programming • Calculus I & II• Data Structures and Algorithms. • Computer Architecture

TECHNICAL SKILLS

Languages/Frameworks/Libraries: Python• C++• R• SQL• JavaScript• React• NumPy• Node.js • Express • HTML • TensorFlow • PyTorch

Tools: MySQL• RStudio• Google Colab• MS Excel• MATLAB • Github/git

WORK EXPERIENCE

Jun 2025 - Aug 2025 **Meta** Menlo Park, CA

Meta U SWE Intern

•Built hybrid music recommendation system implementing SVD algorithm from scratch and Haversine-based geospatial filtering, processing sparse user-song matrices with optimized deep copy mechanisms to deliver location-aware personalized recommendations.

•Developed dynamic map clustering with raw SQL optimization over ORM, tile-based math calculations for real-time Google Maps integration, and role-based access control system with JWT authentication across production codebase.

•Debugged Meta production codebase by fixing user profile regex validation issues and modernizing legacy JavaScript analytics tracking across 20+ dashboard files to Flow enum architecture.

Sep 2024 - Oct 2024 **Extern (Webacy)** Remote

Data Analytics Extern

•Validated 500 + blockchain smart contracts for accuracy and risk assessment, applying auditing frameworks and predefined risk tags.

•Applied clustering and data analysis techniques to detect vulnerability patterns in blockchain datasets, strengthening contract security insights.

May 2024 - Jul 2024 **Alabama State University** Montgomery, AL

Undergraduate Research Intern

•Researched deep learning and optimization methods, applying gradient descent techniques in TensorFlow and PyTorch to improve classification models.

•Built and fine-tuned CNNs and other computer vision architectures for image classification, increasing model accuracy and efficiency.

PROJECTS

Sound Map | React.js | Node.js | Express | Prisma | SQL

•Built a full-stack software engineering project (React, Node.js, Express, PostgreSQL) with machine learning (collaborative filtering, SVD) and geospatial data integration to deliver personalized music recommendations.

•Implemented an interactive map interface with dynamic clustering that visualizes music trends by geographic region, featuring real-time discovery and a weighted hybrid recommendation algorithm.

•Built a secure platform with JWT authentication, role-based & region-based access control, and a PostgreSQL/Prisma backend that efficiently processes user-song interaction matrices for optimal recommendation delivery.

SmartSeg | R

•Executed a data analytics and machine learning project in R using K-means clustering, preprocessing, and data visualization (ggplot2) to generate customer segmentation insights for targeted marketing.

ACTIVITIES & AWARDS

Presidential Academic Scholarship• National Society of Black Engineers • W.E.B DuBois Honors Scholar •International Students Association • Google Developers Student Club Fellow • ColorStack Fellow • CodePath Scholar • Center for Financial Advancement Scholar