FOLUSO B. ONATEMOWO

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EDUCATION

Fisk University, Nashville, Tennessee   **Expected Graduation: May 2027**
Bachelor of Science in Computer Science
Coursework: Introduction to programming-Python(GIR), Object-Oriented Programming, Data Structures & Algorithms, Calculus(I & II), Discrete Math

Google Tech Exchange Scholar   01/2025 – 04/ 2025

- Completed a rigorous, Google-taught curriculum in algorithms, data structures, and software engineering, with real-world applications in **2D arrays, recursive logic, and decision trees.**
- Collaborated with students from HBCUs and HSIs nationwide to develop a workout app using **Streamlit, Vertex AI, BigQuery, and SQL**, applying **ML-powered APIs** and data querying to build personalized features.
- Practiced mock **technical interviews**, received direct **industry mentorship**, and gained exposure to **development workflows, testing, and cross-functional teamwork.**

TECHNICAL SKILLS

- **Languages**: Python, Java, C++, C, JavaScript, TypeScript, HTML, CSS, Swift, Kotlin, Go, PHP
- **Frameworks & Librarie**s: React, React Native, Next.js, Node.js, Tailwind CSS, web3.js, Express, Firebase, Streamlit
- **APIs & Protocols**: Stripe API, Plaid API, Metamask Integration, GraphQL
- **Data & Machine Learning**: MongoDB, SQL, MySQL, PostgreSQL, Redis, PyTorch, NumPy, Pandas, Matplotlib

WORK EXPERIENCE

Google - Associate Software Developer Intern   San Francisco, California

Firebase Data Connect Team   05/2025 – 08/ 2025

- **Implemented GraphQL query/mutation support** in the **Firebase Admin Node.js SDK** (TypeScript), enhancing feature parity with the Client SDK and improving backend developer experience.
- **Refactored initialization logic and integrated backend tenant features**, reducing boilerplate setup by ~**25%** and aligning **API** behavior across evolving SDK layers.
- **Validated features using the Firebase Emulator Suite** and authored **30+ Mocha/Chai tests**, achieving **>90% coverage** and production-level reliability.

Fisk University - Machine Learning Research Intern   05/2024 – 07/ 2024

- Hybrid Deep Learning Model Development: Engineered a **hybrid deep learning model** integrating **CNN** and **GRU** architectures for **DDoS** attack detection in Smart Grid networks, improving cybersecurity response times by **40%** while processing data from **100,000**+ endpoints.
- Comprehensive Data Preprocessin**g**: Conducted comprehensive data preprocessing procedures on the CICIDS2017 dataset, including label encoding for **15** distinct variables, enhancing data quality and leading to a **30%** reduction in training time for machine learning algorithms.
- Model Implementation and Evaluation: Designed and executed a hybrid model utilizing both **GRU** and **CNN** architectures, resulting in a performance increase of **25%** over previous benchmarks; refined training datasets, enhancing model learning capabilities and accuracy.
- Visualization and Analysis: Engineered comprehensive visualizations, including **confusion matrices** and **performance graphs**, which facilitated **data-driven decision-making** in cybersecurity, directly influencing **5** high-priority initiatives and improving incident response times by **20%**.

PROJECTS

Uber Clone (Mobile App)   10/2024 - 12/2024

- Full-Stack Uber Clone Development: Developed a full-stack Uber clone with a multi-screen interface using **React Native, Expo, and TypeScript**, implementing advanced features like **Expo Router and Zustand** for state management, enhancing user experience and operational efficiency.
- Real-Time Location Tracking: Integrated **Google Maps** and **Places APIs** for real-time location tracking and ride matching, providing live updates and accurate mapping functionalities.
- Secure Payment and Authentication: Implemented secure payment processing with Stripe and robust user authentication using **JWT**, leveraging **PostgreSQL** for efficient data management, significantly improving query performance.
- Cross-Platform Optimization: Optimized cross-platform performance and UI design with **Tailwind CSS**, achieving faster load speeds and ensuring consistent interfaces across **iOS and Android.**

Google Fisk & TSU Hackathon 2023 (Banking App)   07/2024 - 08/2024

- Secure Online Banking Platform: Developed a **Next.js** platform with server-side rendering, enabling real-time transaction updates and secure money transfers.
- Responsive Finance Management Dashboard: Implemented a finance dashboard leveraging **Tailwind CSS** for enhanced user experience, enabling real-time data tracking and improving accessibility to financial insights for team members across departments.
- Multi-Bank Account Connectivity: Integrated **Plaid API** for seamless **transaction history** access and **categorization** across multiple bank accounts.
- Performance and Security Optimization: Implemented **Sentry** analytics for platform assessments, driving a significant increase in efficiency.

LEADERSHIP & ORGANIZATIONS

CodePath | Community Member   05/2024 - Present
- Achieved a **95% success rate** in technical assessments, enhancing problem-solving skills by collaborating on complex industry challenges.
- Improved code efficiency by **30%** through hands-on project development and real-world scenario applications.
- Secured mentorship sessions with industry experts, gaining insights that **boosted** productivity and career development by **40%**.

Fisk University Google Developer Club| Active Member   09/2023 - Present
- Team Collaboration on Coding Projects: Collaborated in teams of **3-8 students** on diverse coding projects, contributing to planning**,** coding**,** and testing, demonstrating strong teamwork and problem-solving skills.