

UZOMA OKEY-ANYANWU

uokeyany@gsumail.gram.edu | 318-350-8785 | www.linkedin.com/in/uzoma-okey-anyanwu | <https://github.com/uzom-a>

EDUCATION

Grambling State University

Expected Graduation: May 2028

Bachelor of Science in Computer Science

GPA: 3.9/4.0

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Calculus I & II, Probability & Stats I

Awards & Honors: President's List, Alpha Lambda Delta Honors, Presidential Scholarship, NSYP Scholar

Certifications: Getting Started with Cybersecurity, IBM Security Zero Trust Principles, Google Cloud Digital Leader

TECHNICAL SKILLS

Programming Languages: Python, C++, C#, JavaScript, Swift, HTML, CSS

Frameworks/Tools: React, Fast API, PyTorch, Pandas, NumPy, Vue3, Vuetify, Flask, Jupyter Notebook, Git, VS Code

EXPERIENCE

Program Earth

May 2025-Present

Open-Source Contributor

Remote

- Implemented interactive map filters and hover tooltips using **Vue 3** and **Vuetify** to improve user experience by 30%
- Designed responsive UI components to visualize geospatial layers such as water volume and canopy density
- Contributed to automation workflows using GitHub Actions to streamline data updates from GeoTIFF sources

Arise and Shine Foundation Inc

May - June 2025

SwiftUI Intern

Tallahassee, FL

- Engineered a secure journaling mobile-app, *Aura Labs*, using **SwiftUI**, integrating `@AppStorage` for persistent state management and `SecureField` for passcode-protected user authentication
- Built dynamic, data-driven visualizations by implementing custom Pie Chart and Calendar views using **Angle-based arc rendering** and **SwiftUI's date APIs** to visualize emotional trends
- Collaborated in a fast-paced environment, pitching the final product to industry representatives and ranked in the top 5 out of 30+ submitted apps

Bloomberg

September 2024

Software Engineering Fellow

Remote

- Collaborated with Bloomberg Engineers to refine code optimization strategies, enhancing efficiency by 40%
- Implemented advanced data structures such as hashmaps, trees, heaps and graphs to optimize algorithms
- Utilized Git for version control and applied debugging tools for efficient problem resolution

PROJECTS

Vision API Screening Webapp | (Python, React, Fast API, PyTorch)

- Built an **AI-powered** web app that screens retina images using a **ResNet-50** model to detect eye defects
- Improved accuracy with OpenCV-based clinical feature extraction for explainable results
- Implemented efficient image upload and real-time result display with **React** and **FastAPI**

Inventory Manager | (C++, STL, File I/O)

- Built a console-based inventory management system for tracking and updating stock levels
- Used **C++ Standard Library** and file handling to implement CRUD operations with persistent item data
- Leveraged data structures like vectors and maps to efficiently manage and retrieve inventory records

Binary Classification Model | (Python, XGBoost, Pandas, NumPy)

- Developed a machine learning model to predict smoker status from a dataset of 10,000 individuals; achieved **0.89 AUC** through feature engineering and hyperparameter tuning
- Utilized **Gradient Boosting** and techniques to enhance model interpretability and overall performance
- Engineered and selected features using **Pandas** and **NumPy**, optimizing model performance for healthcare insights

LEADERSHIP & COMMUNITY INVOLVEMENT

Grambling State University Notion Hackathon | *Coordinator, Secretary*

November 2024

- Organized a hackathon for 100+ students, fostering collaboration and innovation among intellectually driven students
- Documented volunteers' feedback and contributions to enhance event planning and execution

Additional Involvements: ColorStack, National Society of Black Engineers, Rewriting the Code, African Students Association,