

Osamwengumwenro Oni-Ojo

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EDUCATION

Alabama Agricultural and Mechanical University (AAMU), Huntsville, Alabama

Bachelor of Science in Computer Science

Relevant Coursework: Data Structures & Algorithms, C++ programming, Java programming, Calculus I & II, Python programming, Discrete Structures

Honors/Awards/Scholarships: Presidential Scholar, Honors Program Scholar, AAMU Presidential Scholarship

Expected Graduation: May 2027

GPA: 3.93/4.0

SOFTWARE AND TECHNICAL SKILLS

Languages: • Python • C++ • C# • HTML5 • CSS • JavaScript • Java

Frameworks / Technologies: • SQL • Linux • Git • MATLAB • Matplotlib • Firebase • Unity

WORK EXPERIENCE

June 2025 – Present

Radiation Detection Research Group

Normal, AL

Research Intern

- Performed spectroscopic analysis on cesium hafnium chloride (Cs_2HfCl_6) scintillators using UV-Vis and fluorescence spectrophotometers to determine optical properties, including absorption edge and photoluminescence properties.
- Utilized Cary WinUV software to create and interpret absorption and transmission spectra, calculating bandgap energies via Tauc plots and analyzing spectral trends.
- Applied Beer-Lambert Law to quantify optical absorption; taking >25 measurements across varying thicknesses and concentrations to validate material consistency and transparency.
- Maintained detailed laboratory records and contributing to data collection for progress reports aimed at advancing nuclear radiation detection systems.

May 2024 – July 2024

EICOP + Activision Game Development Program

Los Angeles, CA

Game Dev Intern

- Attended a Hollywood Summit to network with industry professionals and learn about the latest trends in video game development, establishing connections with over 20 industry experts.
- Participated in immersive classes focused on game design, development, and programming using C++ and C#, enhancing technical skills and understanding of game mechanics.
- Designed gameplay systems and animated characters for *Catch That Thief!* (2D racing) and *Alien Escape* (3D third-person shooter) using Unity, Mixamo, and C#, earning 75% and 85% approval ratings, respectively.

June 2024 – August 2024

Genomic Explorations and Networked Experiences in AI

Normal, AL

Research Intern

- Completed research training in genomic data analysis, bioinformatics, and AI applications.
- Gained hands-on experience using Python, Linux, and AI tools to analyze large biological datasets.
- Applied machine learning to identify genomic patterns and extract meaningful insights.

PROJECTS

Flashcard Web-App | Language: HTML, CSS, JavaScript | Tools: GitHub (Open Source Integration)

- Built and customized an interactive flashcard web application using HTML, CSS, and JavaScript, enabling users to create, flip, and study digital flashcards in a clean and responsive interface.
- Enhanced visual appeal and user interaction by modifying open-source codebases with original design improvements, animations, and accessibility features.
- Improved functionality and originality through deep personal editing, resulting in a more engaging and user-friendly learning tool.

Scribble Wallpaper | Language: Kotlin | Tools: Android Studio, Canvas API, GitHub

- Built an interactive live wallpaper that lets users draw directly on their Android home screen using finger gestures.
- Used **WallpaperService**, **Canvas**, and **path** to handle real-time drawing and bitmap persistence.
- Designed clean UI with themed buttons for pen color and implemented preview and redraw systems.

January 2024 – April 2024

NSF-INSPIRE Research Program

Normal, AL

- Utilized MATLAB codes and the theory of Dynamic Mode Decomposition to analyze and interpret data related to hurricane formation patterns.
- Contributed to predictive modeling efforts, enhancing forecast accuracy by 15% and providing insights into weather.
- Refined Dynamic Mode Decomposition (DMD) code for analyzing large weather datasets, successfully truncating and aligning key parameters such as magnitude, frequency, energy across 119 modes to improve accuracy in hurricane formation research.

AWARDS, LEADERSHIP & CERTIFICATIONS

Professional Affiliation: • Google Developers Student Club (Member) • AAMU Data Science Club (Member) • AAMU Honors Program (Member) • AAMU E-sport (Member) • Vista Agentic AI Hackathon (2025 Attendee) • Godslive Global Initiative (Co-founder)

Certificates & Awards: • Vista Agentic AI Hackathon 2025: Best UI Orchestrator (LogicMonitor) • Microsoft Office Specialist: Word Associate (Office 2019) • BioHacker: Linux Foundations • Prince's Trust Commonwealth Certificate on Sustainable Development

Languages: English (native), French (intermediate)