

# Oghenetega Idogun

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A recent computer science graduate seeking a challenging career opportunity in computer science, to apply academic knowledge and interpersonal skills for organizational success. Skilled in working both single-handedly and as part of a team to research, design, develop, and engineer innovative business solutions.

## EDUCATION

**Florida International University**  
*Bachelor of Science in Computer Science*

August 2021 – April 2024  
*Miami, Florida*

## SKILLS

- Programming Languages: C, C++, C#, Python, Java, SQL, JavaScript, Object-Oriented Programming, Resourcefulness
- Frameworks: PyTorch, Jax, TensorFlow, GeoPandas, Jupyter, NumPy, Unity, OpenGL, Data Structures, Linux Administration
- Core Competencies: Multi-Threaded Computing, Computer Architecture, Logical Reasoning, Optimization Mathematics
- Other Skills: Mixed Reality, Game Development, Artificial Intelligence, Web Development, Data Pipelining, Research

## WORK EXPERIENCE

### Software Developer

October 2023 – May 2024

*HoloMath Project*

*Miami, Florida*

- Collaborated with a 7-member team on a Unity project, sponsored by Microsoft, resulting in a user-base of 100+ students.
- Leveraged data structures and algorithms in C# to refine system performance, reducing load times from 10 to 5 seconds.
- Optimized application features using C++ and OpenGL, achieving full system modularity and a 3 millisecond response time.
- Applied object-oriented principles to improve code modularity and maintainability, resulting in a 15% reduction in bug reports.
- Exhibited the HoloMath Project at Art Basel Miami, leading to 10 partnership inquiries and increased visibility.

### Research Assistant

October 2023 – April 2024

*Florida International University*

*Miami, Florida*

- Engaged in AI-driven educational research, crafting ethical web content using Python and Flask, bringing in 2,000 users.
- Developed a command-line AI tool for search engines using C, enhancing search result relevance, validated by user testing.
- Streamlined multi-threaded mechanisms to improve application performance, cutting data processing time by 3 minutes.
- Conducted in-depth AI usage analysis in 11 educational settings, utilizing R for data evaluation.

### Design Support Intern

October 2022 – March 2023

*Florida International University*

*Miami, Florida*

- Provided IT support focusing on user accessibility and assistance, resolving 100+ issues and achieving a 91% satisfaction rate.
- Utilized JavaScript to create engaging e-learning content, resulting in a 42% increase in student course material interactions.
- Collaborated with faculty to identify and implement technology enhancements, improving overall user experience.

### Information Technology Intern

August 2019 – July 2021

*Pepperoni Foods Limited*

*Port Harcourt, Nigeria*

- Engineered an in-house ledger application in Java, saving the company over \$2,000 annually by replacing costly ERP software.
- Performed regular maintenance of office server, applying knowledge in computer architecture, preventing unforeseen downtime.
- Researched emerging technologies, introducing a new software tool that cut project management time by 10 hours per month.
- Supervised Linux administration and network security, enhancing server uptime to 99.9% and improving security protocols.

## PROJECTS

### Physics Augmented Reality Simulation

August 2023 – September 2023

*Miami, Florida*

*C++, C#, Unity, Mixed Reality Toolkit 3, GitHub*

- Constructed an educational augmented reality physics simulation for the Shellhacks Hackathon, earning first runner-up.

### Data Analysis for BlueGAP

June 2023 – July 2023

*Miami, Florida*

*Python, GeoPandas, Jupyter, NumPy, GitHub*

- Automated a data preprocessing pipeline for Blue-Green Action Platform, capturing key water quality metrics across Florida.

## ACTIVITIES/INVOLVEMENT

### Technical Director

Google Developer Student Club (GDSC); FIU

*July 2021 – April 2024*

*Miami, Florida*

- Adapted workshop content and resources to focus on modern software development ensuring relevance and practical value.