Oluwasegun Adewola

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EDUCATION

Northeastern University

Sep. 2024 - May 2027

Seattle, USA

- Master of Science in Computer Science
 GPA: 4.0, Global Learner Award
 - People's Choice Winner, Qualcomm & Microsoft Edge AI Hackathon (LLMConquest 4)
 - Relevant Coursework: Data Structures and Algorithms (C/C++), Object Oriented Design (Java), Discrete Math, Foundations of Computer Science (Python)

Covenant University

Aug. 2017 – Aug. 2022

Bachelor of Engineering in Electrical and Electronics Engineering

Ota, Nigeria

Projects

- Co-architected full-stack educational platform with team using FastAPI and React with Three.js, enabling real-time 3D universe exploration through Llama 4-powered AI assistant for immersive space learning across 11 supported languages.
- Engineered real-time WebSocket communication and AI integration pipeline with custom Llama 4 API prompt engineering, implementing intelligent caching (1-hour TTL) and AWS Transcribe/Polly for voice-controlled navigation that processes natural language commands into 3D environments with 60 FPS rendering.
- Built procedural content generation system using PIL and NumPy for real-time texture creation, implementing asynchronous batch processing that reduces initial load time by 60% while generating scientifically accurate celestial object visualizations.

LLMConquest 4 (Realistic Game AI Prototype) | Python, Ollama, Mistral 7B, Whisper, PyQt Mar. 2025 - Mar. 2025

- Won People's Choice Award at Qualcomm & Microsoft Edge AI Hackathon leading 5-person team to integrate Mistral 7B on Ollama for narrative-driven Connect Four with real-time conversational AI opponent.
- Implemented thermal-aware minimax algorithm with alpha-beta pruning and speech processing pipeline using OpenAI Whisper, reducing computational load by 50% during high temperatures through dynamic depth adjustment while enabling seamless voice gameplay with 16kHz audio capture and real-time transcription.
- Selected by Qualcomm and Microsoft judges post-hackathon to develop RPGMaster, an AI DungeonMaster experience inspired by Dungeons & Dragons, designed for next-gen Snapdragon X-Elite edge devices.

EXPERIENCE

Volunteer Python Instructor

Jul. 2024 - Aug. 2024

Apps and Scripts (Coding Bootcamp for kids)

Ibadan, Nigeria

- Designed and delivered an 8-week Python programming workshop to kids aged 8-15, achieving a 90% positive feedback rate.
 Developed interactive coding challenges and adapted teaching methods to different learning paces, addressing learning gaps
- Developed interactive coding challenges and adapted teaching methods to different learning paces, addressing learning gaps and increasing final assessment average score by 18% YoY.

Data Scientist, FX Pricing

Jan. 2023 – Aug. 2024

Sendapp, Flutterwave (International Money Transfers to Africa)

Lagos, Nigeria

- Developed Python-based FX rate tracker using Playwright and Requests enabling real-time competitor analysis, designed Power BI dashboards for real-time FX insights, reducing manual data collection time by 50% and increasing team productivity by 22%.
- Designed predictive pricing algorithms based on market trends and historical sales data in collaboration with cross-functional teams, leading to a \$150,000 revenue increase in the first month.
- Collaborated with core engineering teams to integrate pricing algorithms into the Consumer FX platform, enhancing data accuracy and price update speed, resulting in a 12% increase in pricing-related product activations.

Sales Development Representative

Aug. 2022 – Dec. 2022

Flutterwave (Scalable Payment Infrastructure for Africa)

Lagos, Nigeria

• Leveraged analytical insights to identify high-conversion leads and automated lead tracking using Python scripts, driving 14% increase in conversion rates and 30% improvement in sales team productivity.

Project Management Intern

May 2021 - Dec. 2021

Mar & Mor Engineering Services

Lagos, Nigeria

• Led design, testing and implementation of complex lighting and power circuits for company HQ and 6 high-priority projects concurrently, optimizing HVAC system shop drawings for ARK project (World's largest indoor arena) by 2.3%.

LEADERSHIP

National Society of Black Engineers (NSBE) – Member

Northeastern University Lead – Events Lead

Northeastern University GameCube – Design Lead

Sep. 2024 – Present
Jan. 2025 – Present
Dec. 2024 – Present

SKILLS

Languages: Python, Java, JavaScript, TypeScript, C, C++, Go, SQL, HTML/CSS

Frameworks & Libraries: React, Node.js, Three.js, FastAPI, SpringBoot, pandas, NumPy, PyTorch, LangChain, Socket.IO Tools & Databases: Docker, Kubernetes, AWS, Google Cloud, Linux, GitHub, WebGL, MySQL, PostgreSQL, SQLite, MongoDB