

# Oluwasegun Adewola

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## EDUCATION

### Northeastern University

Sep. 2024 – May. 2027

*Master of Science in Computer Science*

*Seattle, USA*

- GPA: 4.0, Global Learner Award
- People's Choice **Winner, Qualcomm & Microsoft Edge AI Hackathon (LLMConquest 4)**
- Relevant Coursework: Data Structures and Algorithms, Object Oriented Design, Discrete Structures, Foundations of CS

### Covenant University

Aug. 2017 – Aug. 2022

*Bachelor of Engineering in Electrical and Electronics Engineering*

*Ota, Nigeria*

- Relevant Coursework: Software Development Techniques, Computer Networks, Signal Processing, Statistic
- Leadership: Photography Lead - College of Engineering; Project Manager - Convocation Planning Committee (CPC); Instructor - CPC Volunteering

## EXPERIENCE

### Software Engineer

May. 2025 – Present

*Project RPGMaster (Qualcomm Mentored Project)*

*Seattle, USA*

- 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.

### 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 to reinforce learning, assess understanding, and address learning gaps.
- Adapted teaching methods to different learning paces, increasing the 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 a Python-based FX rate tracker using Playwright and Requests, enabling real-time competitor analysis and reducing manual data collection time by 50%.
- 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.
- Improved pricing strategy alignment and eliminated manual reporting by designing Power BI dashboards for real-time FX insights, increasing team productivity by 22%.

## PROJECTS

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

- Led 5-person team to merge AI with gaming, developing a cross-platform PyQt app that brings a narrative-driven AI opponent to Connect Four, powered by Mistral 7B on Ollama for engaging real-time chat.
- Integrated speech-to-text (OpenAI Whisper) for seamless voice-based gameplay, enabling natural banter between players and the AI, while Minimax + Alpha-Beta pruning powered a strategic and adaptive game AI.
- Optimized for on-device performance, dynamically adjusting AI computation based on system temperature to deliver smooth gameplay on edge devices.

### Brawlers (2.5D Fighting Game) | Python, Pygame

Nov. 2024 – Dec. 2024

- Co-developed a 2.5D single-player fighting game with 2 unique characters and 3 arenas using Python's Pygame module.
- Implemented real-time character animations, reactive opponent AI, real-time combat mechanics, game controller support, and collision detection.

## LEADERSHIP

### National Society of Black Engineers (NSBE) – Member

Sep. 2024 – Present

NU Lead – Events Lead

Jan. 2025 – Present

NU GameCube – Design Lead

Dec. 2025 – Present

## SKILLS

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

**Frameworks:** React, Node.js, Express.js, Flask, SpringBoot, JUnit

**Databases:** MySQL, PostgreSQL, SQLite, MongoDB

**Developer Tools:** Git, Docker, Kubernetes, AWS, Google Cloud, Linux, Github

**Libraries:** pandas, NumPy, Matplotlib, sci-kit learn, Pytorch, LangChain