

Isaiah O. Ekundayo

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SUMMARY

Software Engineer with 2+ years of experience building AI-powered, scalable web, mobile, and cloud applications. Proficient in full-stack development, system optimization, and collaboration. Currently pursuing an M.Sc. in Computer Science (AI concentration) at the University of Akron with a 4.0 CGPA, graduating Spring 2026.

EDUCATION

University of Akron

M.Sc. in Computer Science, GPA: 4.0/4.0

Aug 2024 – May 2026
Ohio, United States

Covenant University

B.Sc. in Computer Science, GPA: 3.8/4.0

Sep 2019 – Aug 2023
Ogun, Nigeria

- **Relevant Coursework:** Software Ecosystems, Data Integration, Graph Analytics, Advanced Computing, Advanced Algorithms, Artificial Intelligence, Data Structures & Algorithms, Software engineering, Database management, Object-Oriented Programming.

TECHNICAL SKILLS

- **Languages:** Python, JavaScript (JS), TypeScript (TS), C++, C#, HTML/CSS
- **Frameworks/Libraries:** ReactJS, Next.js, Node.js, React Native, TensorFlow, Flask, FastAPI, .NET
- **Tools & Platforms:** Git, Docker, AWS, Azure, SQL Server, MongoDB, MySQL, Linux, Unix
- **Certificates:** AWS Solutions Architect Associate, AWS Educate Machine Learning Foundations, Introducing Generative AI with AWS, Microsoft Certified: DevOps Engineer Expert, Microsoft Certified: Azure Developer Associate, Huawei Cloud Certified Developer Associate (HCCDA), Coursera Methods of Solving Problems, LinkedIn SQL for Data Analysis .

WORK EXPERIENCE

University of Akron

Aug 2024 – May 2026
Ohio, United States

Teaching Assistant

- Taught and Graded programming assignments and exams for 200+ students across C++, Software Engineering, Data structures, and Object-Oriented Programming courses, ensuring timely feedback and maintaining grading consistency using well-defined rubrics.
- Provided one-on-one support during office hours, helping students improve their understanding of data structures, code readability, and optimization techniques, resulting in noticeable improvement in coding proficiency and academic performance.

Rubies Microfinance Bank (Subsidiary of Qucoo)

Feb 2024 – Aug 2024
Lagos, Nigeria

Software Engineer

- Led the end-to-end architectural design and implementation of the Rubies mobile banking application using React Native and SQL, including scalable chat-banking protocols serving 10,000+ active users with secure conversational and transaction features
- Optimized system performance by resolving critical navigation bottlenecks, resulting in 40% faster app response times and improved user retention through efficient state management design

Qucoo

Jan 2024 – Aug 2024
Lagos, Nigeria

Software Engineer

- Developed ReactJS admin portals with secure role-based access control systems that secured enterprise contracts from Nigerian Interbank Settlement System (NIBSS) and First Bank of Nigeria
- Implemented CI/CD pipelines using Docker and AWS to automate deployment workflows, improving system availability and enabling zero-downtime updates

Errandpay LTD

Jul 2022 – Jan 2024
Lagos, Nigeria

Software Engineer

- Developed fault-tolerant financial systems using NodeJS and .NET, implementing POS purchasing, fraud detection, and IP-level blacklisting to enable robust transaction processing and drive 120% revenue growth.
- Built horizontally scalable architecture by developing an application load balancer using health checks and circuit breakers, routing 100,000+ daily requests while maintaining 99.9%+ uptime

PROJECTS & RESEARCH

- **AI-Powered Sentiment Analyzer for Movie Reviews:** “Sentilizer”: Developed an AI-Powered Sentiment Analyzer for Movie Reviews that performs sentiment analysis on user-submitted movie reviews using React, Python, and Scikit-learn. The system utilizes a trained Support Vector Machine (SVM) classifier in Python to detect the polarity of the sentiment (positive, negative, or neutral) based on textual input.
- **AI Course Recommendation System:** “Learn-fusion”: Collaborated on the development of a course aggregation and recommendation system that integrates online learning resources from Udemy, Coursera, and YouTube into a unified interface. I focused on backend and AI components, implementing a content-based recommendation engine using the all-MiniLM-v2 embedding model with vector similarity search (FAISS DB). Built backend services with NestJS and Python, enabling real-time course integration, intelligent recommendations, and scalable system performance.
- **I. Ekundayo and Z. Duan. (2025). Investigating the Impact of Age and Gender on Sentiment in Movie Reviews:** Presented at AIR-RES Conference 2025; Currently in Press; To be published in Springer Nature.