

# 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

*Teaching Assistant*

Aug 2024 – May 2026

*Ohio, United States*

- 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 Qucoon)

*Software Engineer*

Feb 2024 – Aug 2024

*Lagos, Nigeria*

- 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

### Qucoon

*Software Engineer*

Jan 2024 – Aug 2024

*Lagos, Nigeria*

- 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

*Software Engineer*

Jul 2022 – Jan 2024

*Lagos, Nigeria*

- 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.