

Ayomilala Nwani

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EDUCATION

- **Pan Atlantic University** Lagos, NG
Bachelors of Science in Computer Science Sept. 2020
 - Relevant Courses: Language and Compilers, Web Development, Blockchain, Computer Vision

EXPERIENCE

- **Ecobank Headquarters** Lagos, NG
Network Security Engineer Intern Jul 2021 - Oct 2021
 - Utilized **Cisco** and **Packet Tracer** to design and implement the network setup for a new branch location, ensuring seamless connectivity and optimal performance.
 - Provided comprehensive technical support at Ecobank Headquarters, diagnosing and resolving IT issues, managing hardware and software installations, and conducting routine system maintenance to ensure smooth operation of all IT systems.
 - Assisted in network security assessments and implemented security protocols to safeguard sensitive data.
- **Risk Control Academy** Lagos, NG
Web Developer Intern Jul 2022 - Oct 2022
 - Created user interfaces that fetched, parsed, and formatted analytic data into **React** components, improving data visualization.
 - Implemented **RESTful APIs** to integrate backend services with the front-end application, enhancing data interaction and user engagement.
 - Collaborated with cross-functional teams to gather requirements and develop solutions that met user needs.
- **Motorways Center** Lagos, NG
Software Developer Intern Jul 2023 - Oct 2023
 - Tested software for bugs and operating speed, fixing bugs and documenting processes to increase efficiency by **18%**.
 - Collaborated with a team of 3 interns and a senior developer to brainstorm and implement ideas and feedback into the app's development.
 - Enhanced application performance by optimizing code and implementing best practices for software development.

PROJECTS

- **SILMS (Student Information Learning Management System)**
 - Optimized backend operations by implementing **NestJS**, achieving a **20% increase** in server response efficiency and a **30% reduction** in load times through **Turbo optimized builds** and **lazy loading** techniques.
 - Conducted over **200+ automated and manual tests**, ensuring **99.9% uptime** and reliability. Adopted **monorepo structure** and **API versioning**, enhancing maintainability and scalability.
- **Expression Grammar Parser**
 - Developed an **ANTLR-based** expression parser for transforming complex grammatical expressions into Python code, enhancing code generation and readability.
 - Implemented a **visitor pattern** in Java for semantic analysis, enabling dynamic evaluation and error handling of expression syntax for robust language processing.
 - Designed a **Python printer module** to output parsed expressions in Python format, supporting intricate expressions with accurate semantic translation.
- **Fit Project**
 - Designed and implemented a **React Native** app for food tracking, integrating **Firebase Firestore** for data management and user authentication.
 - Developed a custom **TensorFlow** model for food detection, enhancing the app's core functionality with computer vision capabilities.

PROGRAMMING SKILLS

- **Languages:** React Native, Python, JavaScript, C++, SQL, Java
- **Frameworks & Tools:** NestJS, TensorFlow, Firebase, ANTLR, RESTful APIs, Cisco Packet Tracer
- **Soft Skills:** Team Collaboration, Problem Solving, Agile Methodologies, Technical Support