Lotanna Okeke

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EDUCATION

Pan-Atlantic University — Lagos, Nigeria

Bachelor of Science in Computer Science GPA: (4.58/5.00) — *Nov. 2020 – Oct. 2024*

Relevant Courses: Linear Algebra, Data Structures, Discrete Structures, Structured Programming, Data Management, System Analysis and Design, Object-Oriented Programming, Algorithms and Complexity Analysis, Formal Methods and Software Development, Computational Science and Numerical Methods, Software Engineering, Data Science, AI/Machine Learning

EXPERIENCE

Designer and Backend Engineer — Dec. 2023 – Feb. 2024

Pan-Atlantic University — *Lagos, Nigeria*

- Assisted in leading a team of 16 developers, to develop a Student Information and Learning Management System (SILMS). This was to replace the schools existing system.
- Designed the wire-frame of most pages using Figma. This wire-frame structures made it easy for the mock-up designers and the prototypes.
- Designed the prototypes of a few pages using Figma. The prototypes were tested with potential users before sending to the front-end developer, which meant that user feedback and updates were done at design stage.
- Developed multiple REST API using Nest.js and PostgreSQL to create multiple functionalities which allowed for communication between different users, i.e., students, lecturers, HODs, etc.

Mobile Application Developer (Intern) — July. 2023 – Oct. 2023

VAS2Nets Technologies — *Lagos, Nigeria*

- Worked with Figma and Flutter to design and develop the mobile frontend of a web service the company was working on. This helped provide the users as they could decide to use either the solution as a mobile application.
- Continuously improved the design through feedback. This ensured that the final UI was to the users satisfaction.
- Worked with the web frontend developers and backend engineer to suggest improvements to the backend and APIs.

Flutter Developer (Intern) — March. 2023 – June. 2023

Ansvel — *Remote*

- Worked on the design and functionality of a referral reward system for a Fintech mobile application using Flutter and Firebase. This was to encourage users to raise awareness of the app.
- Designed and developed the login and sign-up page using Figma and Firebase Authentications. Using Firebase made it easy to handle the state of different users.
- Suggested, designed and developed the splash screen for the application using Flutter. This helped improve the user interface.

PROJECTS

Event Echo | *Dart, Flutter, Spring boot, Java, PostgreSQL, Firebase, Docker* — Link

- Developed a full-stack mobile reminder application using Spring Boot servicing a REST API with Flutter as the frontend. This combines the functionality of a basic reminder system with the functions of a specialized certificate expiry tracker.
- Implemented the principles of Hexagonal Architecture into the backend logic to decouple the core logic.
- Utilized Firebase Authentication for both the login and sign-up, to handle state management.
- Used GitHub for version control, and Docker for containerization.

Video Object Detection | *Python, numpy, tkinter, YOLO algorithm* — Link

- Developed an interface that detects the objects in a video of the users choice.
- Utilized tkinter to create a user-friendly interface.
- Enabled multiple operation on the interface, such as noise reduction, sharpening, blurring, etc.

Flower Image Recognition Model | *Python, matplotlib, tensorflow* — Link

- Developed a model that identifies the type of flower using its picture, with an accuracy of above 80%.
- Split the data into train, test and validate to prevent overfitting in the models training.
- Utilized matplotlib to visualise both data and results in a simple and understandable manner.

TECHNICAL SKILLS

Languages: Dart, Java, Python, C/C++, SQL (Postgres, MySQL), JavaScript, HTML/CSS, C#.
Frameworks: Flutter, Node.js, Firebase, JFrame, REST API, Spring Boot, Bootstrap, Tkinter.
Developer Tools: Git, Docker, Figma, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse.
Theoretical Concepts: DevOps, Hexagonal Architecture, Human Centered Interface
Soft Skills: Collaboration, Time Management, Effective Communication, Critical Thinking.