Alexius Nwala

PROFESSIONAL SUMMARY

Exceptionally skilled Software Developer and Embedded Software Engineer with a diverse skill set encompassing both software and hardware systems. Extensive experience in designing and implementing IoT solutions alongside expertise in full-stack web development.

@ alexiusnwala@gmail.com

🔗 alexiusnwala.com

github.com/alexiuszz

linkedin.com/in/alexis-nwala

📍 FCT, Nigeria.

📞 (070)-1378-2628

WORK HISTORY

Mavis
Front-End React Developer- FCT, Nigeria.
September 2022 - till Date

- Design and develop massive learning platform (Biamuta.com) for children, with a myriad of diverse lessons and games, with fun characters animated with rive.
- Transform our characters from still images into animations using Rive, giving life to fun and interactive characters that enhanced the platform's overall appeal.
- Collaborate closely with the research team to conceptualize and execute user-friendly and interactive features, keeping young learners actively engaged.
- Conduct user testing and gathered feedback to iterate and improve on various modes and functionalities, further enhancing the overall user experience.
- Build efficient and highly optimized components, allowing minimal loading time for a visually appealing animated mode.

Datheron
Part-time Lead Software Engineer- FCT, Nigeria
April 2021 - till Date

- Design and Engineer software solutions which include custom web apps for clients and for micro services, some of which include OdaNow, brain-trainer, Granomaly and more.
- Contribute in the development and implementation of the user interface for OdaNow, an innovative store management tool, ensuring a seamless and intuitive user experience.
- Actively involved in the development and maintenance of Granomaly, a cutting-edge risk management tool tailored to the requirements of a prominent client.
- Implemented optimized database integration techniques, significantly improving data retrieval speed and overall system responsiveness.
- Developed a caching layer that further enhanced the user experience by reducing latency and minimizing redundant data requests.

Innov8 Hub
Embedded Software Engineer- FCT, Nigeria
April 2022 - January 2023

- Developed and design an IOT solution for an automatic irrigation system with multi-point nodes using Embedded C, ESP32 and Blynk IOT.
- Enabled remote monitoring and control of the irrigation system through a user-friendly web interface, providing real-time updates to users.
- Designed an autonomous line following robot with Multiple infrared sensors using Arduino and Embedded C.
- Developed intelligent algorithms that allowed the robot to adapt to varying terrains and environmental conditions.
- Designed and developed software for an automated mushroom farm.
- Developed a user-friendly interface to monitor and control critical parameters such as temperature, humidity, and lighting, ensuring consistent, high-quality yields.

CypherCrescent Limited
Intern, Mathematics and Research department
August 2019 - January 2020

- Acquired complete understanding of the fundamentals of computer programing with C#.
- Gained sufficient understanding of the principles of various data structures including trees and graphs.
- Gained sufficient understanding of linear algebra and Calculus and its applications .
- Devoloped a linear algebra mathematical library using C# for solving various forms of linear equations.
- Developed a circuit simulation application for simulating basic electronic circuits.

SKILLS

Languages
- Javascript, Typescript, Embedded C, C#, C++, Html, CSS.

Libraries and Frameworks
- NodeJS , React, NextJs, Styled Components, Sass, Express, Tailwind

Database Systems
- MongoDB, PostgreSql

Cloud Services
- AWS S3, Vercel, Netlify, Firebase

Software and Systems:
- MATLAB , Figma , Microsoft Office, LINUX(Ubuntu)

Education

Bachelor of Engineering : Electronic Engineering
University of Nigeria Nsukka
September 2015 - June 2021
GPA: 4.22/5.0

Certifications

Advanced React 2023 (Performance and Best Practices)
- **Udemy** By Eyas Matter

Advanced Css and Sass: Flexbox, Grid, Animations and more.
- **Udemy** by Jonas Schmedtmann

Projects

Biamuta.com
- Interactive Learning platform.
React, Firebase, Redux, Styled-components, Rive

Porfolio
- A unique and beautiful portfolio webiste.
Next.Js, React, Framer-motion, styled-components

OdaNow
- Store management tool.
React, Redux, MSql, AWS, Asp.net

A comprehensive list of my projects can be viewed through the link alexiusnwala.com/#projects

Interests

- Sports, Video games, Fitness, Astronomy