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

github.com/alexiuszz

FCT, Nigeria.

alexiusnwala.com

linkedin.com/in/alexis-nwala

(070)-1378-2628

WORK HISTORY

Front-End React Developer September 2022 - till Date

Mavis Computel

- Design and develop Biamuta.com a massive learning platform with React.js, Rive, Redux and more for children, with a myriad of diverse lessons and games.
- Transform our characters from still images into animations using Rive, giving life to fun and interactive characters that enhanced the platform's overall appeal, reducing asset size and thus increasing performance by over 150% and load times by over 200%.
- Collaborate closely with the research team to conceptualize and execute user-friendly and interactive features, keeping young learners actively engaged.
- Conduct user testing and code testing with React testing library and gather 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.

Lead Software Engineer April 2021 - till Date

Datheron Limited

- Design and Engineer software solutions with React.js, Node.js, HTML, Css, Javascript and Typescript which include custom web apps for clients and in-house solutions, some of which include OdaNow, brain-trainer, Granomaly and more.
- Contribute in the development and implementation of the user interface for OdaNow and brain trainer, ensuring a seamless and intuitive user experience.
- Colaborate in the development and maintenance of Granomaly, a cutting-edge risk management tool built with React.js and Asp.net tailored to the requirements of a prominent client.
- Implemented optimized SQL database integration techniques, significantly improving data retrieval speed and overall system responsiveness by over 250% by developing a caching layer that further enhanced the user experience by reducing latency and minimizing redundant data requests.

Embedded Software Engineer April 2022 - January 2023

Innov8 Hub

- 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 achieved using intelligent algorithms that allowed the robot to adapt to varying terrains and environmental conditions.
- Developed a user-friendly interface to monitor and control critical parameters such as temperature, humidity, and lighting, ensuring consistent, high-quality yields.

Intern, Mathematics and Software Research August 2019 - January 2020

CypherCrescent Limited

- Acquired complete understanding of the fundamentals of computer programing with C#.
- Gained sufficient understanding of the principles of object-oriented programing and various data structures including linked lists trees, B-trees and graphs.
- Gained sufficient understanding of linear algebra and Calculus and its applications .
- Built 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.Js, Next.Js, Styled Components, Sass, Express.Js, Tailwind, Git, Redux, OOP, Unit Testing,

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) By Eyas Matter
- **Udemy**

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

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, Microsoft Sql, AWS, Asp.net

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

Interests

- Sports, Video games, Fitness, Astronomy