

Samuel E. Owolabi

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Summary

Software Engineer, CS graduate with experience in MERN/PERN Stack. Implemented web curriculum for 50+ students, ensuring high satisfaction. Proficient in secure web app development using NodeJS, React, and Firebase. Passionate about delivering value through maintainable code and software solutions. Ready to contribute to impactful projects immediately.

Education

Ecole Supérieure des Technologies Avancées et de Management

B.Sc in Computer Science

Porto-Novo, Benin Republic

Aug 2019 - Sep 2022

Work Experience

EL Academy

I.T Instructor

Abuja, Nigeria

Jan 2023 - Feb 2024

- Developed and implemented a comprehensive curriculum to teach front-end and back-end web development technologies, including HTML5, CSS3, Bootstrap, Python, Flask, and MySQL, to 50+ students.
- Implemented customized lesson plans tailored to individual learning styles, resulting in a 95% satisfaction rate from students.
- Utilized real-world projects and scenarios to engage students in hands-on learning experiences, which improved their understanding of full-stack web development and led to an 80% increase in student retention rates.

Project Experience

AI Customer Support Chatbot

Links: [Website](#) | [Source Code](#)

Technologies: Next.js | Tailwind CSS | Redux | LangChain | OpenAI | AWS EC2 | Vercel

- Developed a customer support chatbot using Next.js, Tailwind CSS, and Redux, providing a polished, user-friendly interface.
- Integrated OpenAI models to enable the chatbot to generate intelligent, context-aware responses.
- Implemented Retrieval-Augmented Generation (RAG) using LangChain to enhance response accuracy based on a predefined knowledge base.
- Deployed the web application to AWS EC2 Servers and Vercel, ensuring scalability and reliability.

YCA- YouTube Comment Analyser (Close-Source SAAS Project)

Links: [Website](#)

Technologies: NextJS | Prisma | Supabase | React | JavaScript | Figma

- UI Design using Figma, focusing on a user-centric interface for analyzing YouTube comments.
- Developed the frontend and backend with Next.js, ensuring cross-browser compatibility and efficient application structure.
- Collaborated with an AI engineer to enhance the analysis capabilities and deliver more insightful data through Gemini API.
- Implemented authentication and role-based authorization, enhancing security and user management.
- Integrated a custom API to handle data retrieval and processing, enabling dynamic interaction between the frontend and backend

Chat Application

Links: [Website](#) | [Source Code](#)

Technologies: NodeJS | Express | Prisma | PostgreSQL | React | TypeScript | Socket.io

- Committed to the use of TypeScript for better type-safety.
- Adopted use of MVC pattern architecture in backend development.
- Implemented WebSocket functionality with Socket.io to facilitate real-time messaging and notifications, enhancing user-engagement and interaction.
- Integrated authentication and authorization using JWT, ensuring secure user access and data protection.
- Designed a responsive, intuitive user interface with React.js and optimized the back-end architecture with Express.js for performance and scalability.

JOBSCO

Links: [Website](#) | [Source Code](#)

Technologies: NextJS | Mongoose | MongoDB | React | Redux

- Developed a user-authenticated job portal with advanced security features, utilizing NextJS, React for the front-end ensure responsive design and MongoDB for the back-end.
- Implemented all product features from scratch.
- Optimized performance and scalability through advanced database queries and server-side integration, ensuring fast load times and reliable data exchange.

- Utilized Redux for global state management, providing efficient state handling across the application.

Skills

HTML, CSS, TailwindCSS, Bootstrap, JavaScript, Typescript, jQuery, React, Redux, Zustand, NextJS, NodeJS, Express, PostgreSQL, MongoDB, Firebase, Supabase, Figma, Adobe Photoshop, Git, GitHub, Postman API Testing, Python, Prisma, RESTful APIs, Linux, Vagrant VMs ,Vercel, AWS Services (Learning)*