Marvin Asamoah

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Summary

A motivated and skilled Full Stack Developer with extensive experience in both frontend and backend development. Proficient in **JavaScript**, **TypeScript**, **React**, and **Next.js**, with a strong foundation in computer engineering. Demonstrated ability to develop and maintain responsive websites and web applications, collaborate with cross-functional teams, and integrate third-party services. Adept at problem-solving and committed to continuous learning and professional development. Seeking opportunities to leverage my technical expertise and creativity in a challenging and dynamic environment.

Experience

QA Engineer - End-to-End Web Testing, Hubtel Limited Ghana   Oct 2024 – Present

- Conducted automated end-to-end testing for web applications using **Playwright**.
- Developed and published an npm package to simplify input testing.
- Created reusable test suites for consistent and scalable test coverage.

Full Stack Web Developer, Poulour   Nov 2023 – Feb 2024

- Built and tested the frontend of an administrative database system.
- Integrated APIs using **Axios**, **Firebase**, and **MongoDB**.

Frontend Developer, Intern, First Love Center   Aug 2023 – Dec 2023

- Developed and maintained the church website using **React**, **JavaScript**, and **TypeScript**.
- Implemented responsive designs and user-friendly features.
- Integrated **Firebase** for real-time data and collaborated with the backend team.

Projects

Task Management Web App   github repo

- Developed a task management platform to facilitate task tracking and management.
- Tools Used: React, Next.js, Next Auth, Express.js, MongoDB

Real-Time Chat Application   github repo

- Developed a real-time chat application supporting messaging, file uploads, audio recording, and voice/video calls.
- Utilized **React Native (Expo)** for mobile and **React** with **TypeScript** for web frontend.
- Built backend using **Node.js**, **Express**, **MongoDB**, and **Socket.IO**.
- Integrated **Agora SDK** for calls and **Cloudinary** for media storage.
- Implemented secure user authentication using **JWT** and **RBAC**.
- Optimized performance with **Redis** caching and **TanStack Query** for state management.
- Built a cross-platform real-time chatting app with multimedia sharing.
- Tools Used: React Native, React, Expo, Redis, TanStack Query, Node.js, MongoDB, Agora SDK

File Management Tool   github repo

- Created a command-line tool for locating and deleting files efficiently.
- Tools Used: Node.js, npm

Education

University of Energy and Natural Resources, BS in Computer Science   Jan 2020 – Sept 2024

- **Coursework:** Computer Architecture, Comparison of Learning Data Structures and Algorithms, Computational

Theory, Operating Systems, Fault Diagnosis and Failure Tolerance, Secure Network Systems, Embedded Systems, Robotics, Artificial Intelligence, Software Engineering, Project Management

Achievements

- Developed a feature-rich church website, leading to a 25% increase in online engagement.

- Designed over 50 promotional flyers using Adobe Photoshop, enhancing the church's campus presence.

- Integrated multiple third-party services using Axios and Firebase, streamlining web application functionality.

- Built and launched TASKIFY, a web-based task management tool for efficient task tracking.

- Designed and built a 3D portfolio website using Three.js, showcasing advanced web development skills.

- Created a versatile platform supporting one-on-one and group chats with multimedia sharing.

- Deployed a robust, scalable system ensuring real-time communication across multiple platforms.

Technologies

Languages: Java, JavaScript, TypeScript, C++, Python

Frameworks & Libraries: React, Node.js, Express, Next.js, Firebase, React Native, Expo

Tools & Technologies: MongoDB, Git, PostgreSQL

Other Skills: Unit Testing, Integrated Testing, End to End Testing, Automated Testing, OOP, Frontend Development, Backend Development, Mobile Development, Full-Stack Development, English (Professional proficiency or above)