MUSTAPHA MUHAMMED BOTCHWAY

SOFTWARE ENGINEER | Javascript | Python | React | React Native | MySQL

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CAREER SUMMARY

Software Engineer with hands-on experience building production-focused web and mobile applications using JavaScript, React, React Native, and Node.js. Experienced in APIs, databases, cloud platforms, and AI-powered features, with a strong interest in scalable systems and real-world impact.

EDUCATION

Masters of Science in Applied Computer Science   Aug 2022 – Dec 2025
Grand Valley State University   GPA: 3.6 (Completed)
Bachelors of Science in Computer Science   Oct 2012 – May 2016
University of Ghana

TECHNICAL SKILLS

Frontend: Javascript, React.js, React Native, HTML, CSS, Electron.js
Backend: Node.js, Express.js, REST APIs, SQL, PHP
Databases: MySQL, PostgreSQL, SQLite, MongoDB
Cloud & DevOps: AWS, Firebase, Git
Data & AI: Python (Pandas, Numpy, Matplotlib), Looker Studio
Other: Java, Spring Boot, Photoshop

PROJECTS

GENERATIVE COLLABORATION: REAL-TIME AI-POWERED WEB APPLICATION (Node.js, Express, Sqlite)
- Built a real-time web application supporting live voice and text collaboration.
- Designed RESTful APIs and backend services to handle audio processing, data storage, and user interactions.
- Implemented database-backed retrieval logic using embeddings to surface relevant past discussions.
- Integrated third-party services to process speech input and generate contextual responses.

Mobile Food Ordering App (React Native, Firebase)
- Designed and built a mobile app that allows restaurant servers to take and manage food orders in real-time.
- Implemented real-time order tracking for kitchen staff to streamline food preparation.
- Enabled customers to scan QR codes to view digital menus and place orders directly from their phones.
- Developed a live dashboard for the restaurant owner to monitor transactions and order flow in real-time.

Ecommerce Web Application (React, Firebase, MySQL)
- Built a scalable web platform that allows vendors to sign up and list products for sale.
- Implemented advanced search and filtering features to help customers easily discover products.
- Secured user accounts with two-factor authentication (2FA) to ensure safe access and data protection.
- Integrated Stripe for secure, reliable payment processing and seamless checkout experiences.

PROFESSIONAL EXPERIENCE

Graduate Assistant – GVSU College of Computing (LMS)
Grand Valley State University | January 2024 – April 2025
- Led front-end development of a React-based LMS, integrating APIs and improving user engagement by 35%.
- Collaborated with cross-functional teams to enhance accessibility and responsiveness across devices.
- Collaborated on in-house projects working with different technologies and programming languages like Java.

Software Engineer– Garage Mobility, Ghana
March 2022 – July 2022
- Contributed to the development of a customer-facing web application that streamlined the process of placing business orders
- Collaborated with a team of developers to integrate and test backend APIs for internal applications.
- Focused on improving the user interface of the company's software suite to enhance usability and customer experience.