

# Desmond Essuman

## Software Engineer

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• [Portfolio](#) • [Linkedin](#) • [Github](#)

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### Summary

Highly skilled and collaborative Full-stack Software Engineer with a passion for building robust and scalable web applications across the entire software development lifecycle. Proficient in JavaScript/TypeScript, React/Next.js for modern user interfaces, and Node.js/Express for scalable APIs. Experienced in delivering reliable, end-to-end features, from user-centric UI/UX to secure, well-tested backend services with a focus on monitoring and performance optimization. Eager to leverage expertise in blockchain development and AI-powered solutions to contribute to cutting-edge projects in a forward-thinking organization.

### Professional Experience

#### Web Developer

March 2024 – April 2026

*Santander*

*Madrid (Remote)*

- Maintained and enhanced Stencil.js applications by diagnosing issues, fixing bugs, and improving performance and usability.
- Performed rigorous code reviews and refactors to ensure shared components were consistent, reusable, and easy to maintain, fostering a high standard of code quality.
- Collaborated effectively with cross-functional teams, including product and QA, to troubleshoot production issues and deliver timely resolutions, minimizing impact on users.
- Monitored and optimized application performance using various tools to ensure reliability, responsiveness, and an excellent user experience.
- Wrote and updated comprehensive documentation to support seamless project handoffs and significantly reduce onboarding time for new team members.

#### Software Developer

June 2023 – December 2023

*Global Icons Agency*

*Accra (North Legon)*

- Partnered closely with designers and fellow developers to deliver consistent and intuitive user experiences across Tapngo's web and mobile applications.
- Built and refined robust frontend features while supporting critical backend integrations for core business workflows and functionalities.
- Implemented fixes and enhancements through methodical testing and debugging processes, significantly improving application stability and user satisfaction.
- Integrated various third-party APIs and services, extending application functionality and enhancing user engagement.
- Documented releases, code changes, and established coding standards to improve team alignment and knowledge sharing, fostering a collaborative development environment.

#### Software Developer

January 2022 – December 2022

*Ranna Motors*

*Accra (Kaneshie)*

- Developed, maintained, and shipped production-ready code for dynamic client websites using modern technologies like React.js and Tailwind CSS.
- Built and maintained resilient RESTful APIs with Node.js and Express.js to support secure and efficient data exchange between frontend and backend services.
- Performed thorough QA testing to ensure optimal cross-browser compatibility and mobile responsiveness across all developed web properties.
- Integrated robust authentication and fundamental security controls to safeguard sensitive user data and maintain application integrity.
- Worked closely with stakeholders to translate business requirements into reliable, high-quality features, ensuring alignment with project goals.

### Education

#### University of Ghana

Accra

*BSc Computer Science*

- Specialization in Software Engineering and Data Structures, Completed thesis on 'Optimizing Web Application Performance', Relevant coursework: Algorithms, Database Management, Object-Oriented Programming

*Web Development Certificate*

- Comprehensive training in full-stack web development, Hands-on experience with modern JavaScript frameworks and backend technologies, Developed multiple web projects from concept to deployment

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**Skills**

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| <ul style="list-style-type: none"><li>• Frontend: React.js, Next.js, AngularJS, Stencil.js, Tailwind CSS</li><li>• Backend: Node.js, Express.js, REST APIs</li><li>• Languages: JavaScript, TypeScript, Python</li><li>• Databases: MongoDB, MySQL</li></ul> | <ul style="list-style-type: none"><li>• Cloud: AWS, Azure</li><li>• Observability: Monitoring, Logging, Tracing (CloudWatch, Grafana, Prometheus, Sentry)</li><li>• Testing: Unit Testing, Integration Testing, Contract Testing</li><li>• Security: Authentication, Authorization, Rate Limiting</li></ul> | <ul style="list-style-type: none"><li>• Blockchain: Blockchain Development, Smart Contracts</li><li>• AI: AI-powered Solutions, Applied Machine Learning</li><li>• Tools: Git, Firebase, Docker</li><li>• Methodologies: Agile, Scrum, DevOps Principles</li></ul> |
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**Languages**

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- English (Fluent), Fluent
- Twi (Native), Fluent

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**Projects**

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**Personal Portfolio Website | 2024**

- A personal portfolio website showcasing various projects and technical skills. Built with Next.js, Tailwind CSS, and Vercel for deployment.

**E-commerce Platform | 2022**

- Developed a full-stack e-commerce platform using Next.js for the frontend, Node.js with Express for the API, and MongoDB for the database. Features include user authentication, product listings, shopping cart functionality, and order processing. Integrated Stripe for secure payments.

**Decentralized Voting System | 2023**

- Built a blockchain-based voting application using Solidity and Web3.js to enable secure, transparent, and immutable voting processes. Deployed and tested on a local Ethereum network.

**AI-Powered Chatbot | 2024**

- Designed and implemented an AI-powered customer service chatbot using Natural Language Processing (NLP) with a Python backend and a React frontend. The chatbot can handle common customer queries and redirect complex issues to human agents.