Desmond Moonga

FULL STACK DEVELOPER

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Professional Summary

Accomplished Full Stack Developer with over five years of hands-on experience in designing, developing, and deploying scalable web and mobile applications. Proficient in JavaScript and TypeScript, with expertise in React.js, React Native, Node.js, and Express. Demonstrated ability to create robust RESTful APIs and manage both SQL and NoSQL databases. Adept at utilizing cloud platforms including AWS, Azure, and Google Cloud for efficient and secure application development. Proven track record of collaborating with cross-functional teams to deliver high-quality projects on time. Strong problem-solving skills with a focus on optimizing performance and enhancing user experience. Passionate about continuous learning and keeping up-to-date with the latest industry trends and technologies.

Experience

Senior Full Stack Developer (Hybrid, Remote-First)

AgriConnect Zambia Ltd | Lusaka, Zambia   October 2024 – February 2025
Project: Real-Time Agricultural Marketplace Platform

Key Responsibilities:

- Led end-to-end development of a Next.js/React Native platform for Zambian farmers, prioritizing offline-first functionality and low-bandwidth optimization to serve rural users.

- Designed a GraphQL API layer to unify RESTful endpoints and WebSocket-based IoT data streams (e.g., soil moisture sensors), reducing API complexity by 50%.

- Built serverless authentication and storage systems using AWS Amplify, enabling secure access for 10,000+ users, including biometric login for mobile app security.

- Automated AWS infrastructure provisioning with Terraform, slashing deployment time by 40% and ensuring consistent environments across dev/staging/prod.

- Collaborated with Zambian agricultural cooperatives to design a multilingual UI (Bemba/Nyanja) with icon-driven navigation, improving usability for low-literacy users by 35%.

Freelance Full Stack Developer

Remote   January 2024 – October 2024

Key Responsibilities:

- Delivered MERN stack applications for clients in healthcare and logistics, using AWS EC2/Lambda for scalable backend workflows and Redis to reduce API latency by 30%.

- Spearheaded CI/CD pipelines with GitHub Actions and Docker, cutting deployment cycles from 2 hours to 20 minutes for 12+ microservices.

- Integrated Stripe and PayPal APIs for payment processing, including custom fraud detection logic that reduced chargebacks by 25%.

- Mentored 3 junior developers in Agile practices and code reviews, improving team velocity by 20%.

Full Stack Developer (Remote)

Tech Innovators Inc.   August 2022 – December 2023

Key Responsibilities:

- Engineered a TypeScript-based e-commerce platform with React.js, achieving 98% Lighthouse performance scores through code splitting and lazy loading.

- Migrated legacy SQL Server databases to AWS DynamoDB, reducing query costs by 40% and enabling real-time inventory updates for 50,000+ SKUs.

- Designed role-based access control (RBAC) with AWS Cognito, securing sensitive financial data for 15,000+ enterprise users.

- Led A/B testing initiatives using Optimizely, increasing checkout conversion rates by 18% through UI/UX refinements.

Full Stack Developer (Hybrid)

Zuba Tech Solutions Ltd   June 2020 – May 2022

Key Responsibilities:

- Developed a React.js/Node.js project management tool used by 10+ Zambian corporations, integrating Azure Functions for automated task reminders and Slack notifications.

- Reduced server costs by 30% by migrating from Azure VMs to serverless Azure Functions and Cosmos DB.

- Built a React Native mobile app with offline sync capabilities, allowing field teams to update tasks without internet connectivity.

- Trained 20+ non-technical staff on tool adoption, achieving 95% user satisfaction in post-launch surveys.

Education

Bachelor of Science in Information Technology | The Zambia Catholic University   **2018**

Skills & abilities

Programming Languages	JavaScript, TypeScript
Frontend Frameworks	React.js, React Native, Next.js, Vue.js
Backend Frameworks	Node.js, Nest.js, Express.js
Database Systems	SQL (MySQL, PostgreSQL, SQL Server, Oracle), NoSQL (MongoDB, Redis)
Version Control	Git
Cloud Platforms	AWS (Amazon Web Services), Azure, Google Cloud Platform (GCP), Heroku
Containerization	Docker, Kubernetes
API Development	RESTful APIs, GraphQL
Testing Frameworks	Jest
Microservices Architecture	Service discovery (e.g., Consul, Eureka), API Gateway (e.g., Kong, Netflix Zuul)
Frontend Markup/CSS	HTML5, CSS3, Sass/Less, Bootstrap, Tailwind CSS, Material-UI
Performance Optimization	Caching strategies, CDN (Content Delivery Network), Lazy loading, Code splitting
IDEs/Editors	Visual Studio Code, IntelliJ IDEA