

Tafadzwa Dembo

Cloud-Native Software Engineer | DevOps-Focused Junior Engineer

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PROFILE

Cloud-native Software Engineer with a strong DevOps mindset and hands-on experience building production-ready web and mobile applications. Specialized in React, React Native, and modern JavaScript, with growing expertise in containerization, CI/CD automation, and Linux-based development environments. I focus not just on writing code, but on **how software is built, deployed, monitored, and scaled**. Known for a strong “get-it-done” mentality and deep curiosity about system reliability and performance.

SKILLS

Frontend

- React (Vite)
- React Native (Expo)
- Tailwind CSS
- Responsive UI & UX
- Lucide Icons

Backend & APIs

- Node.js
- Express
- RESTful API design
- Stateless services
- Health & monitoring endpoints

DevOps & Cloud

- Docker & Docker Compose
- CI/CD pipelines (GitHub Actions – fundamentals)
- Linux CLI & environment optimization
- Serverless concepts (AWS Lambda exposure)
- Environment & secret management

Databases & Storage

- SQLite (local persistence)
- Firebase (Auth & Firestore)
- PostgreSQL (Neon – serverless exposure)
- JSON-based persistence layers

Tools & Workflow

- Git & GitHub
- Agile self-management
- Documentation-driven development
- Production-grade READMEs

DevOps & Linux Transition (Personal Engineering Challenge)

- Migrated full development workflow from Windows to Pop!_OS (Linux) to resolve GPU and rendering instability.
- Rebuilt local development stack with Dockerized services to ensure environment consistency.
- Implemented basic CI/CD pipelines to automate builds and reduce deployment friction.
- Gained deeper system-level understanding of tooling, performance tuning, and developer ergonomics.

PROJECTS

KEY PROJECTS

Live-Ops Command Center – *Full-Stack Monitoring Platform*

- Designed and built a containerized infrastructure monitoring dashboard.
- Implemented backend services for health checks, latency tracking, and system status polling.
- Built a React + Tailwind frontend optimized via multi-stage Docker builds and Nginx Alpine.
- Ensured resilience using Docker volumes for persistent telemetry storage.

Serverless Task Orchestrator API

- Developed a high-performance serverless API using Hono and AWS Lambda.
- Integrated Neon serverless PostgreSQL with Drizzle ORM for type-safe database operations.
- Designed scalable REST endpoints with zero idle cost architecture.
- Used Infrastructure-as-Code principles for repeatable deployments.

FocusFlow – Habit Tracker (Mobile App)

- Built a mobile-first habit tracking application using React Native.
- Implemented streak logic, persistent local storage, and offline-first behavior using SQLite.
- Designed clean UI flows and integrated rich media walkthroughs for demos.

Engineering & DevOps Portfolio Platform

- Built a production-treated portfolio showcasing engineering decisions and system architecture.
- Implemented automated deployments, environment syncing, and CDN delivery.
- Optimized performance and UX for recruiter-friendly presentation.

EDUCATION

O-Level Education

Madhuku Secondary School

2016 – 2019

Zimbabwe

Chipinge

Subjects: Geography, Heritage Studies, Combined Science

Self-Directed Engineering Education

- 1000+ hours of structured learning through documentation, tutorials, and hands-on projects.
- Continuous learning in React, DevOps fundamentals, cloud systems, and Linux environments.