

KAMOGELO ELLEN KGANAKGA

FULL-STACK SOFTWARE ENGINEER

📍 Midrand, South Africa • Available immediately (2 weeks notice) 📞 +27 69 103 5501

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About

Full-Stack Software Engineer with 3 years of experience building production systems, with a strong focus on backend architecture, data integrity, and scalable APIs.

Recognized for strong performance and reliability, selected by management to support delivery of a high-priority internal platform across business units.

Experienced in designing and implementing systems involving complex business logic, financial workflows, and transactional data, with an emphasis on maintainability and correctness.

Technical Skills

Backend	Node.js, Express.js, TypeScript, RESTful API Design, C, .NET
Frontend	React, Angular, Next.js
Databases	PostgreSQL, SQL, Firebase, Entity Framework
DevOps & Cloud	Docker, Kubernetes (basic), Azure (learning), CI/CD, GitHub Actions
Testing	Jest, xUnit, Integration Testing
Other	Backend System Design, Business Logic, API Architecture

Professional Experience

Tiroclif Software Engineer (Full Stack)

Contract • Office-based May 2026 – Present

Stack: PHP, Node.js, TypeScript, PostgreSQL, Express.js, React, Microservices

- Selected by management to support delivery and stabilization of a production business management platform at a sister company ahead of project completion.
- Designed and built **end-to-end backend systems** across quotations, job cards, purchasing, invoicing, payments, supplier management, reporting, and accounting workflows.
- Developed **REST APIs**, designed relational database structures, and implemented core business logic powering live production usage.
- Collaborated with stakeholders to translate operational requirements into software, while supporting deployment, debugging production issues, and continuous system improvements.

Eragateway Software Engineer (Full Stack)

Contract • Hybrid Aug 2025 – May 2026

Stack: TypeScript, Node.js, Docker, SQL, React, Git, CI/CD

- Built and maintained **production backend systems** for logistics and enterprise platforms, including REST APIs, authentication systems, database solutions, Docker deployments, and CI/CD pipelines used across multiple live systems.
- Designed and implemented a **multi-tenant job platform** with role-based access control, real-time notifications, and dynamic data filtering.
- Awarded Employee of the Year** within five months for exceptional performance and impact.
- Selected by management to support a sister company's platform delivery, contributing to critical backend systems through to contract completion.

Fallible Software Engineer (Frontend)

Full-time • Remote May 2023 – Jul 2025

Stack: Node.js, TypeScript, React, Next.js, Flutter, Firebase, Figma, Git

- Developed and maintained production web applications for multiple client projects, building reusable frontend components and scalable UI systems.
- Collaborated with cross-functional teams to translate business requirements into production software.
- **Promoted twice** during employment and maintained long-term client relationships across all delivered projects.

Projects

Full-Stack Healthcare Management System [view](#)

Contributor • Solo

Software Engineer (Full Stack)

May 2026 – Present

Stack: Node.js, Express, Angular, PostgreSQL, Docker, Kubernetes, Jest

- Built a healthcare management system featuring RBAC, appointment scheduling, medical records management, and JWT authentication.
- **Prevented double bookings** using database-level constraints; implemented **transactional audit logging** for compliance.
- Protected sensitive medical records with authorization layers and edit restrictions; improved data integrity through database-level validation.
- Designed to ensure data consistency and prevent scheduling conflicts in multi-user environments.

Full-Stack Double-Entry Payment System [view](#)

Contributor • Solo

Software Engineer (Full Stack)

May 2026 – Present

Stack: C#, .NET, PostgreSQL, Angular, Docker, Entity Framework, xUnit, GitHub Actions

- Built a double-entry payment system ensuring financial correctness through immutable ledger entries, ACID transactions, pessimistic locking, and idempotent request handling.
- Implemented **ordered row locking** to prevent deadlocks; used **ACID transactions** to guarantee financial consistency.
- Implemented **idempotency keys** for safe request retry handling; validated concurrency with automated integration tests.

Education & Certifications

- **ALX Backend Specialization (97%) Certificate** — [view](#)
- **HackerRank SQL (Intermediate) Certificate** — [view](#)
- **HackerRank Node.js (Intermediate) Certificate** — [view](#)
- **Linux Foundation Global Systems Fellowship** — Kubernetes LiFT Scholarship Recipient (2026)
- **Microsoft Azure Associate Program** — In Progress (2026)