ALLANUS MUGANYIZI DEUS

Full-Stack Software Developer | DevOps & Cloud

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PROFESSIONAL SUMMARY

Full-stack software developer with 3 years of experience designing, building and running production web platforms. I built and operate the complete sales platform of Tanzanite Auto Traders (tanzaniteauto.com) with **Next.js, TypeScript, React, Node.js, PostgreSQL and Prisma ORM**: a public website in 7 languages plus customer, staff and administrator portals serving 15,800+ vehicles. I design secure authentication and role-based access, write clean APIs and database schemas, and deploy with Docker and CI/CD on AWS. A UI/UX background (Figma) means I care about responsive, usable interfaces as much as the code behind them.

TECHNICAL SKILLS

Frontend	Next.js (App Router), React, TypeScript, JavaScript, Tailwind CSS, HTML, CSS, responsive and mobile-first design, React Native, Flutter
Backend and APIs	Node.js, REST APIs, Next.js Server Actions and Route Handlers, Python, Django, background jobs (Redis queues)
Databases	PostgreSQL, Prisma ORM (schema design, migrations), Redis, SQLite
Security and Auth	Password hashing, session management, role-based access control, rate limiting, single-use reset links, audit logging, security headers
Cloud and DevOps	AWS (EC2, S3, CloudFront, SES, IAM, SSM), Docker, GitHub Actions CI/CD, Linux administration, DNS, Caddy/TLS
AI and Enterprise	AI-assisted development with LLM coding agents; natural-language vehicle search (typo-tolerant query understanding); enterprise multi-role portals with audit logs, analytics and document management
Design and Tools	Figma (wireframes, prototypes, design systems), Git and GitHub, testing (type checks, linting, end-to-end browser tests), technical documentation
Strengths	Analytical problem solving, debugging production issues, requirements analysis, clear communication with non-technical users

PROFESSIONAL EXPERIENCE

Full-Stack Developer and DevOps & Systems Engineer, Tanzanite Auto Traders Ltd — Oct 2023 to Present

Dar es Salaam, Tanzania (Hybrid). Japanese used car sales company, Tokyo head office and East Africa Regional Office.

Designed and built **tanzaniteauto.com** end to end in Next.js, TypeScript and React: vehicle search and filters, vehicle pages with photo galleries, enquiries and ordering, 7 languages and 4 currencies, plus customer, staff and admin portals.

Designed the **PostgreSQL schema with Prisma ORM** (20+ versioned migrations) and the **REST API endpoints** and server actions behind it; built a Redis job queue that processes vehicle photo uploads (313,000+ photos).

Built **secure authentication**: hashed passwords, server-side sessions, four roles (customer, staff, admin, super admin) enforced on every server action, login rate limiting, email password reset with expiring single-use links, and audit logs of sensitive changes.

Built staff productivity tools: a spreadsheet-style price editor, a one-click quick-edit panel for price, status and photos, natural-language search, and fully responsive portals that work on phones; every change is tested with type checks, linting and end-to-end browser tests.

Replaced the company's Google Apps Script **invoice system** with an invoicing module in the staff and admin portals: numbered invoices with HS codes, PDF generation, one or two payment banks, email delivery to customers through Amazon SES with a copy to staff, paid and overdue tracking, monthly totals and a full audit history; imported every legacy invoice and 384 audit events with a tested, repeatable script and moved the staff Android app (Capacitor) to the new system.

Added **Google sign-in** for customers and staff, automatic notification emails, quotation PDFs, and privacy-first analytics with campaign attribution (UTM tags and ad click IDs) behind a cookie consent banner.

Deployed on **AWS with Docker**: GitHub Actions CI/CD with keyless OIDC credentials, automatic database migrations, health checks and automatic rollback; media on S3 + CloudFront; transactional email on Amazon SES (DKIM, SPF, DMARC).

Migrated 15,808 vehicles and 313,575 photos into managed PostgreSQL and S3 with verified identical counts; diagnosed a production outage caused by over-fetching queries and fixed it the same day.

Delivered SEO and internationalisation: per-language URLs, sitemaps, structured data, Google Search Console and Bing; the site was indexed by Google within hours of launch. Wrote step-by-step deployment and operations guides.

Software Developer and UI/UX Designer, Ardhi University (project-based academic work) Nov 2024 to Present

Led UI/UX design and Figma prototyping for web and mobile projects, then built and tested production-ready UI components with modern frameworks.

Worked with technical teams on design-to-code handoff, user-flow analysis and cross-platform responsiveness.

SELECTED PROJECTS

Tanzanite Auto Traders Platform (production). Multi-portal sales platform described above. tanzaniteauto.com

Stack: Next.js, TypeScript, React, Tailwind, Node.js, PostgreSQL, Prisma, Redis, Docker, AWS, GitHub Actions

Tanzanite Invoice System (production). Invoicing for the sales team, moved from Google Apps Script into the main platform: PDF invoices, customer email delivery, payment tracking, audit history and an Android app for staff.

Stack: Next.js, TypeScript, PostgreSQL, Prisma, Amazon SES, Capacitor (Android)

Tanzanite Tech Solutions Website (production; I am a member of Tanzanite Tech Solutions). Company website in 4 languages including Arabic right-to-left, an admin CMS that edits every text, price and page without code, a free website-check tool and quote leads by email; runs as a second Docker container on the same AWS server with its own keyless deploy pipeline and automatic rollback. tech.tanzaniteauto.com

Stack: Next.js, TypeScript, Tailwind, PostgreSQL, Docker, AWS, GitHub Actions

Smart Irrigation Advisory System. Data-driven water management platform with real-time soil moisture monitoring, weather-based forecasts and SMS advisories, supporting 320+ farmers.

Stack: React, JavaScript, Figma

Open City Data Portal, Dar es Salaam City Council. Bilingual (English and Swahili) open-data portal design for 500+ municipal datasets, with admin management, analytics and a public API reference page.

Stack: React, Figma

Open-source and live demos. 20 public repositories, including web and mobile apps with live demos, collected in my portfolio. allan.tanzaniteauto.com

Stack: React, Vite, Django, React Native, Flutter

EDUCATION

BSc Information Systems and Management (ISM), Ardhi University, Dar es Salaam 2024 to 2027 (final year)
Information systems analysis and design, databases, computer networks and systems administration, IT project management.

LANGUAGES

English (professional), Swahili (native)