

Katlego Barayi

Software Engineer

South Africa
Johannesburg
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[My Portfolio & Github](#)
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EXPERIENCE

MTN Coe, Johannesburg — Software Engineer

January 2025 - PRESENT

I am a core member of the CMS engineering team responsible for building, extending, and supporting the Content Management System that powers MTN Group's Consolidation App. My role spans backend and frontend development, platform integrations, automation, and operational support to ensure a scalable, secure, and reliable CMS ecosystem. In parallel, I have been developing Scrum Master capabilities, actively applying Agile principles within the team.

Responsibilities:

- **CMS Platform Development & Strategy:** Designing and building a scalable CMS using Directus to support enterprise content needs for the Consolidation App, enabling flexible content modeling and efficient content delivery across platforms.
- **Custom Extensions & API Integrations:** Developing custom Directus extensions and integrating internal and external APIs to extend CMS functionality and support complex business workflows.
- **Frontend Development:** Building and maintaining CMS-driven frontend features, ensuring seamless integration between the CMS and consumer-facing applications with a focus on performance and usability.
- **Authentication & Security:** Implementing secure authentication and authorization flows using OAuth and Okta, ensuring enterprise-grade access control and compliance with organizational security standards.
- **CI/CD & Platform Reliability:** Maintaining and improving CI/CD pipelines to support reliable deployments, automated testing, and rapid iteration while minimizing downtime and release risk.
- **Testing & Quality Assurance:** Writing unit tests, integration tests, and supporting user acceptance testing (UAT) to ensure system stability, data integrity, and high-quality releases.
- **Analytics, Monitoring & Automation:** Integrating PostHog for product and usage analytics, implementing automation to streamline CMS operations, and proactively identifying issues through monitoring and telemetry.
- **CMS Support & Enablement:** Acting as part of the CMS support team by troubleshooting production issues, supporting content editors and stakeholders, and continuously improving system usability and performance.

SKILLS

TECHNICAL / PROFESSIONAL:
CMS development, Backend engineering, Frontend development, API integration, Custom CMS extensions, Enterprise application development, Authentication & authorization, OAuth 2.0, Platform scalability, System reliability

AGILE & DELIVERY:
Agile methodology, Scrum (Scrum Master in training), Sprint planning, Daily stand-ups, Retrospectives, Backlog refinement, CI/CD pipelines, Automated deployments, Continuous integration, Continuous delivery

TESTING & QUALITY:
Unit testing, Integration testing, User acceptance testing (UAT), Test automation, Quality assurance, Production support, Incident troubleshooting

SOFT SKILLS:
Cross-functional collaboration, Stakeholder management, Problem-solving, Technical communication, Ownership, Time management, Adaptability

DEV & DATA:
JavaScript, TypeScript, REST APIs, Directus, Okta, PostHog, OAuth, API security, Analytics instrumentation

TOOLS & PLATFORMS:
Directus, Git, GitHub/GitLab, GitHub Actions, GitLab CI, Docker, Visual Studio Code, Postman, CI/CD tooling

Lelapa AI, Johannesburg — Prototype Developer

June 2024 - October 2024

I joined Lelapa AI as a Prototype Developer following participation in a company hackathon, where our team designed and built a functional Sign Language Interpreter prototype. The solution leveraged Lelapa AI's language APIs to translate South African Sign Language into any of South Africa's 11 official languages, delivering outputs in both text and audio formats to improve accessibility and inclusion.

Responsibilities & Contributions:

- **AI-Powered Prototype Development:** Designing and building a working Sign Language Interpreter prototype that converts sign language input into spoken or written language using Lelapa AI's language models.
- **API Integration & Language Processing:** Integrating Lelapa AI's language APIs to support multilingual translation across all 11 official South African languages, enabling dynamic language selection by end users.
- **Accessibility & Inclusive Design:** Contributing to an accessibility-first solution focused on breaking communication barriers for deaf and hard-of-hearing users through real-time, multi-format outputs.
- **Frontend & Interaction Development:** Developing user-facing interfaces to allow users to select output language and format (text or audio), ensuring a clear and intuitive prototype experience.
- **Rapid Prototyping & Iteration:** Working in a fast-paced, experimental environment to quickly iterate on features, validate concepts, and refine the prototype based on team feedback and technical constraints.
- **Cross-Functional Collaboration:** Collaborating closely with AI engineers, designers, and product stakeholders during and after the hackathon to evolve the concept into a polished prototype.

AWARDS

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EDUCATION

WeThinkCode_, Johannesburg — System Development

September 2023 - December 2024

WeThinkCode_ trains youth in South Africa to be world-class software developers that are equipped with market-relevant programming skills, and work readiness competencies built up through the dynamic learning environment.