

MOGAU MAMANGANA MOTHAPO

Aspiring Cloud Engineer | DevOps Engineer | Software Engineering Student

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Bayview, Cape Town, South Africa

EXPERIENCE

Developer Productivity Tooling & Specialized Apps

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2025 - 06/06/2026

- Collaborated directly with client and DevTeam to define requirements, govern project scope, and execute iterative solution delivery
- Developer Productivity Tooling & Specialized Apps
- Technologies: Python, Google Workspace APIs, React, Vite, TypeScript
- Open-Source & Team Workouts
- Built an automated Python command-line utility integrating securely with Google APIs to eliminate redundant administrative workflows and enhance local developer workspace productivity
- Engineered modular visual analytical modules in React and Vite within agile groups to map out complex, fast-moving financial technology interface patterns and indicators

Technical Peer Tutor

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2025 - Present Cape Town

- Facilitate weekly practical technology workshops and coding sessions covering Object-Oriented principles, backend data management, and system design patterns
- Provide target mentorship via individual code reviews, interactive debugging drills, and complex algorithm walk-throughs to optimize cohort learning paths

Technical Project Lead

Freelance & Independent Solutions

2025 - Present

- Directfull-lifecycle project management: gathering cross-functional technical specifications, formatting milestones, and assuring code repository compliance
- Translate complex technological architectures into accessible business strategies for clear, efficient stakeholder buy-in

Infrastructure as Code & Cloud Automation Specialist

Self

2026 - Present

- Infrastructure as Code & Cloud Automation: Expanding knowledge profiles in cloud resource provisioning with Terraform and Cloud Architecture patterns across AWS and Microsoft Azure using sandboxed hands-on labs KodeKloud, personal environments)

Systems Engineering & Audio Infrastructure

Church

2025 - Present

- SystemsEngineering & Audio Infrastructure: Passionate about live signal flow management, hardware routing matrix systems, and microsecond latency optimizations (gained via digital routing configurations like Midas/ Behringer control layers and DAWs)
- Directly mapping core logic back to asynchronous network engineering

SUMMARY

ASPIRING CLOUD ENGINEER, DEVOPS PROFESSIONAL, SOFTWARE ENGINEER
Meticulous Software Engineering student with a focus on Cloud Infrastructure, DevOps practices, and Backend Development. Demonstrated success in creating scalable full-stack applications, designing distributed systems, and automating workflows for containerized deployments. Skilled in managing cloud-native resources (AWS/Azure) and utilizing infrastructure as code (Terraform). Merges a solid technical background in Java, Python, and TypeScript with a collaborative approach, actively engaging in peer mentorship and thriving in agile team settings.

SKILLS

Core Programming

Java Python

TypeScript/ Javascript

Bash Scripting & automation)

Cloud & Infrastructure

Amazon Web Services AWS

Microsoft Azure Docker

Linux Administration

DevOps & CI/CD

GitHub Actions Gitlab CI/CD

Automated Unit Testing

Git workflows

Backend & Databases

RESTful API Design Supabase

Cloudflare R2 Google APIs

Socket Programming

Relational DB Design

EXPERIENCE

Student Class Representative (Mathematics)

University of Cape Town

📅 2023

- Liaised structurally between the academic course convener and a large student cohort to handle feedback channels and programmatic course alterations smoothly

Education

Diploma in Software Engineering (Graduate 2027)

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📅 01/2025 - Present 📍 Cape Town, South Africa

- **Core Modules:** Distributed Architecture, AWS, Practical DevOps, Practices, Database Design, System Security, Team-Based Software Lifecycles.

BSc Chemical Engineering (Incomplete)

University of Cape Town

📅 01/2022 - 12/2024 📍 CapeTown, South Africa

- **Core Modules:** Engineering Mathematics, CSC1015 - Python Programming, Problem Solving, Critical Thinking, Team Work, Engineering Course Work.

PROJECTS

Robot Worlds

📅 13/04/2026 - 28/05/2026 📍 WeThinkCode_

Distributed Client-Server Application

- Developed a high-performance distributed Java client-server system employing socket programming
- Engineered scalable core components including dynamic command routing, request/response lifecycles, and multi-threaded concurrency handling
- Architected automated test suites and CI/CD pipelines via GitHub Actions, systematically accelerating code coverage from 26% to over 90%
- Improved pipeline performance from 5 mins average to 3 mins average with package caching, path filtering and using a smaller image.

Healing Botanicals

📅 01/04/2026 - present 📍 Personal / Client Initiative

Full Stack E-commerce platform

- Designed, built, and launched a production-grade, minimalist e-commerce ecosystem meeting live operational business requirements
- Provisioned secure, performant object asset storage utilizing Cloudflare R2 and established optimized data structures in Supabase
- Automated customer engagement and transactional notification flows securely using the Resend email API workflow framework.
- Collaborated directly with client and DevTeam to define requirements, govern project scope, and execute iterative solution delivery.

SKILLS

Frontend Engineering

React Next.js Vite HTML 5

Tailwing CSS / CSS3

Systems & Practices

Object-Oriented Programming (OOP)

Distributed Systems

Concurrency Architecture

Agile / Scrum

Awards & Certification

Top 10% achievers CSC1015 course

University of Cape Town

Git - Version control

KodeKloud

Docker

Kodekloud

Search Engine Optimization (SEO)

LinkedIn Learning

SQL programming

LinkedIn Learning

GitHub Actions Workshop

LinkedIn Learning

Gen AI course for developers

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