
MPHO RAMALOKO

Software Engineer and Full-Stack Developer

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Location: Polokwane, Limpopo, South Africa

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Availability: Open to Remote and On-site roles

PROFESSIONAL SUMMARY

Software Engineer and Full-Stack Developer specializing in React.js, Node.js, and Django Representational State Transfer (REST) Framework. Proven experience designing secure web applications, utilizing JSON Web Tokens (JWT) for authentication, and executing full Software Development Life Cycle (SDLC) processes. Achieved a 76 percent final grade during a 60-credit Work-Integrated Learning (WIL) placement, engineering a role-based platform with 4 distinct user dashboards. Qualified with a Diploma in Computer Science, securing academic distinctions of 84 percent or higher in Advanced Object-Oriented Programming (OOP) and Operating Systems.

TECHNICAL SKILLS

Languages: JavaScript, Python, Java, Kotlin, C++, Structured Query Language (SQL), HTML5, CSS3

Frameworks: React.js, Node.js, Express.js, Django REST Framework, Spring Boot

Databases: PostgreSQL, MySQL, Prisma Object-Relational Mapping (ORM)

Tools and Cloud: Docker, Git version control, GitHub Actions, Nginx, Amazon Web Services (AWS) Cloud

WORK EXPERIENCE

Software Engineer - Work-Integrated Learning (WIL)

Jul 2025 - Dec 2025

Informatics Community Engagement Program (ICEP) | Remote

- Developed production-grade React.js and Node.js web applications, adhering strictly to Agile and Scrum methodologies.
- Engineered secure REST APIs utilizing JSON Web Token (JWT) authentication and Role-Based Access Control (RBAC).

PROJECTS

Student Care System

2024 - 2025

Django REST Framework, React.js, PostgreSQL, JWT

- Engineered a modular, role-based platform supporting 4 distinct user dashboards with permission-isolated data access.

Event Handler Platform

2025

Node.js, Express.js, Prisma ORM, PostgreSQL

- Built a REST API backend for event management featuring Create, Read, Update, and Delete (CRUD) operations and JWT-based RBAC.

Smart Borehole System

2024 - 2025

Node.js, Python Machine Learning (ML), React.js, Internet of Things (IoT) Sensors

- Designed an IoT monitoring system using Python ML models to predict water depletion and stream real-time alerts.

EDUCATION

Advanced Diploma in Computer Science

Jan 2026 - Dec 2026

Tshwane University of Technology (TUT)

- National Qualifications Framework (NQF) Level 7

Diploma in Computer Science

Feb 2023 - Dec 2025

Tshwane University of Technology (TUT)

- Qualified Dec 2025 (National Qualifications Framework (NQF) Level 6)
- Distinctions: Operating Systems (91 percent), Object-Oriented Programming (87 percent), Advanced OOP (84 percent)

CERTIFICATIONS AND ACHIEVEMENTS

AWS Academy Cloud Foundations — Amazon Web Services (AWS) (2025)

Hackathon Participant — University of Limpopo (2025) and TUT (2023)

Excellence Award — Tshwane University of Technology (2024)

Cybersecurity Capture The Flag (CTF) — Zero Day CTF and World Wide CTF (WWCTF) completion