

Motlalepula Jonathan Mojatau

FULL-STACK SOFTWARE DEVELOPER

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Kaggle: kaggle.com/motlalepulamojatau | Zindi: zindi.africa/users/pulemojatau

GitHub

<https://github.com/pulemojatau>

LinkedIn

<https://linkedin.com/in/motlalepula-mojatau/>

Portfolio Website

<https://motlalepula-mojatau-portfolio-website.vercel.app/>

PROFESSIONAL PROFILE

Full-Stack Software Developer with a strong foundation in designing, building, and deploying scalable web and mobile applications. Holds a Bachelor of Science in Information Technology with a Computer Science and Informatics focus, and brings practical experience across frontend, backend, database, and cloud environments.

Experienced in React, Node.js, PostgreSQL, and API development, with the ability to deliver end-to-end solutions from user interface design to backend architecture and deployment. Has contributed to internal enterprise systems, freelance client work, and self-driven technical projects.

In addition to core software engineering, has working knowledge of Artificial Intelligence and Cybersecurity, including machine learning integration, secure system design, identity management, and threat awareness. Demonstrates strong problem-solving ability, adaptability, and a continuous learning mindset, with a clear interest in growing toward senior-level engineering.

CORE SKILLS

Full-Stack Development: Frontend architecture using React.js and React Native, responsive UI design, component-based development, backend development with Node.js, Express, and Python Flask, RESTful API design and integration, authentication and authorization implementation, end-to-end system development.

Database and Data Management: PostgreSQL database design and normalization, SQL querying and performance optimization, data modeling and schema design.

DevOps and Tools: Git version control, GitHub workflows, Docker containerization, cloud deployment with AWS basics, CI/CD concepts, deployment pipelines.

Artificial Intelligence and Data: Machine learning for classification and regression, Natural Language Processing, OpenAI API and LLM integrations, data preprocessing, feature engineering.

Cybersecurity: Identity and Access Management, security fundamentals, secure coding practices, SIEM concepts including Splunk, ELK, and Wazuh, threat detection, incident response basics, OSINT investigations.

PROFESSIONAL EXPERIENCE

Full-Stack Software Engineer (YES Programme)

Jan 2026 - Present

Tirhelo · Midrand, Gauteng (On-site)

Technologies: Java Spring Boot, React.js, Node.js, PostgreSQL, JavaScript, REST APIs, Git, Agile

- Maintain and enhance a production loan management system used in daily business operations.
- Develop and implement new features across frontend and backend using React.js and Spring Boot.
- Build and integrate REST APIs, supporting data flow and system interoperability.
- Fix bugs, refactor legacy code, and improve system performance and usability.
- Investigate and resolve user-reported issues, ensuring system stability and reliability.
- Collaborate in agile processes including stand-ups, sprint planning, and reviews.
- Support testing, debugging, and deployment processes to ensure stable releases.

Freelance Full-Stack Developer

Mar 2025 - Present

Tobun Professionals (Pty) Ltd

Technologies: React.js, React Native, Node.js, Express, PostgreSQL, AWS, JavaScript, REST APIs

- Designed and developed full-stack web and mobile applications for business use.
- Built scalable backend services and REST APIs using Node.js and Express.
- Designed PostgreSQL databases and optimized queries for performance and reliability.
- Implemented authentication systems and secure API integrations.
- Deployed applications on AWS with focus on scalability and availability.
- Worked closely with stakeholders to translate business requirements into technical solutions.

Software Developer Intern

May 2023 - Dec 2023

Apptechnix Consulting (Pty) Ltd · Remote

Technologies: JavaScript, Node.js, MySQL, Firebase, Flutter, Zoho Projects, REST APIs

- Contributed to the development of web and mobile applications in a collaborative team environment.
- Designed, developed, and tested software features with focus on performance and user experience.
- Improved backend performance through API optimization and efficient database queries.
- Participated in code reviews, debugging, and troubleshooting to ensure system reliability.
- Worked within agile methodologies, supporting sprint planning and delivery timelines.

TECHNICAL PROJECTS

AI Virtual Assistant, DiscoveryGPT

Technologies: React Native, Flask, OpenAI API

- Developed an AI-powered chatbot capable of handling natural language queries.
- Designed for customer interaction, lead generation, and automation.
- Implemented secure API communication and cloud-based deployment.

SMS Spam Classifier

Technologies: Python, NLP

- Built a classification model to detect spam messages.
- Applied text preprocessing, vectorization, and model evaluation techniques.

Additional Projects

Portfolio Website, Calculator App, Drum Machine, Product Landing Page, and Dice App.

EDUCATION

Bachelor of Science in Information Technology

2024

Computer Science and Informatics, University of Johannesburg

CERTIFICATIONS

- CompTIA Security+ (SY0-701)
- Microsoft SC-900: Security, Compliance and Identity Fundamentals
- ISC2 Certified in Cybersecurity, final exam pending

ADDITIONAL LEARNING AND EXPERIENCE

- TryHackMe: Pre-Security and Advent of Cyber
- HackTheBox Academy: AI in Information Security
- Cybersecurity virtual experience programs with Mastercard and Deloitte
- Continuous learning via Udemy and Coursera

COMPETITIONS AND HACKATHONS

- Discovery GradHack: AI Chatbot and Mental Health Detector
- MTN App of the Year Challenge
- Entellect University Cup
- Huawei Android Development Challenge

CORE ATTRIBUTES

- Strong analytical and problem-solving mindset
- Fast learner with ability to adapt to new technologies
- Strong ownership of projects from concept to deployment
- Effective communicator and team collaborator
- Passion for building secure, intelligent, and scalable systems

REFERENCES

Available upon request.