

Tebogo Sebopela

Software Developer

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LinkedIn — GitHub — Portfolio Website

Summary

Results-driven Software Developer specializing in scalable web applications, distributed systems, and cloud infrastructure. Proven ability to design customer-centric solutions that enhance performance and reduce processing time by over 40%. Passionate about building robust systems with modern tools and agile methodologies.

Experience

Wits University – Junior Software Developer

Jul 2024 – Feb 2025

Johannesburg, South Africa

- Designed and implemented a distributed Timesheet Management System supporting 40+ users, reducing processing time by **40%** through automated workflows and optimized queries
- Built a fault-tolerant architecture using Node.js and React with JWT authentication and RBAC
- Developed RESTful APIs and fine-tuned database performance for reduced latency
- Participated in agile ceremonies including daily stand-ups and sprint reviews

Wits University – General Technical Student Helper

Feb 2022 – Jul 2024

Johannesburg, South Africa

- Engineered AV system solutions that cut event setup time by 25%
- Trained 15+ staff on collaboration tools based on needs assessments
- Resolved complex IT issues in distributed network environments

Technical Skills

- **Languages:** C++, JavaScript, Java, Python
- **Frameworks:** React, Node.js, Express.js, Vue.js
- **Infrastructure:** Azure, Docker, Nginx, CI/CD Pipelines, Distributed Systems
- **Data:** PostgreSQL, MySQL, Relational Database Design, Query Optimization
- **Tools:** Git, GitHub, Jest, Agile Development, Algorithm Design

Education

University of the Witwatersrand

2020 – 2025

Bachelor of Science in Computer Science

Key Courses: Parallel Computing, Machine Learning, Computer Networks, Algorithm Analysis & Design, Data Structures

Projects

Postgraduate Onboarding & Tracking System

Nov 2024 – Feb 2025

- Led development of a multi-tiered system for automating postgraduate onboarding, processing 20+ registrations per semester
- Integrated Active Directory for real-time verification in a distributed architecture
- Optimized database lookups by 35% through indexing and query tuning

- Applied object-oriented principles to produce scalable, maintainable code

Timesheet Management System

Jul 2024 – Sep 2024

- Developed a web platform logging 300+ weekly transactions for payroll and time tracking
- Built backend in Node.js with MySQL; deployed using PM2 and Nginx with 99.9% uptime
- Created robust REST APIs with error handling and validation layers

Certifications

- **Alibaba Cloud Academy** – Apsara Clouder (Cloud Computing Fundamentals), 2023