

Mlungisi Sandziso Mamba
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Technical Summary

Languages: PHP, JavaScript, SQL, C++, C#, Java, Python, HTML, CSS

Frameworks & Tools: JAX-RS (RESTful APIs), Bootstrap, MySQL, MongoDB, Neo4j, Tomcat, NetBeans, Visual Studio, Cisco Packet Tracer

Concepts: Object-Oriented Programming (OOP), MVC Architecture, Database Design & Management, Data Structures & Algorithms (Kruskal's, Prim's), Network Security, Agile/Scrum Methodology, Project Management

Platforms: Raspberry Pi, Arduino

Projects

Project Manager & Full-Stack Developer | The Times Team Jul 2025 – Nov 2025

- Led a 5-person team in developing a full e-commerce website using PHP, MySQL, JavaScript, HTML, and CSS
- Built **all static pages, user and admin dashboards**, and implemented dynamic backend functionality
- Designed **database schema (ERD, relational tables, optimized queries)**
- Applied Agile/Scrum methodologies to manage project timelines, delegate tasks, and ensure on-time delivery of milestones, successfully keeping the project on a 4-month schedule.
- Orchestrated the systems analysis and architectural planning for a scalable PHP/MySQL platform using an MVC pattern, detailing functional specs, ERD diagrams, and security protocols.

Live Demo: <https://homewareontap.wuaze.com>

Rental Property Website, 2025

- Designed and developed a web application for property rentals using HTML, CSS, JavaScript, PHP, and MySQL.
- Implemented features for property listings, user authentication, and booking management with a responsive interface.
- Optimized SQL queries and hosted live
- Live Demo: <https://mambarentals.wuaze.com>

Java RESTful Web Service for Hardware Shop, 2025

- Built a RESTful API using Java, JAX-RS, and MySQL to manage hardware inventory, user accounts, and shopping carts.
- Configured Maven dependencies and Tomcat 9 for deployment, ensuring secure data exchange via JSON.
- Tested API endpoints using Postman for functionality and performance.

CFCI Church Management System | 2025 (In Progress)

Technologies: PHP, MySQL, JavaScript, HTML, CSS

-Developing multi-role access control, member portal, event management, and donations

Timochi Takho – Local Services Marketplace | 2025 (In Progress)

Technologies: PHP, MySQL, JavaScript, HTML, CSS

-Planning marketplace with mobile money integration and service provider/customer dashboards

Minimum Spanning Tree Implementation (C#), 2024

- Implemented Kruskal's and Prim's algorithms for network optimization in C#, including graph, node, and edge classes.
- Measured algorithm performance using DateTime and analyzed runtime results with box-and-whisker plots.

Education

Bachelor of Science (BSc) in Computer Science | Eduvos, South Africa

2022 – Expected 2026

- Third Year (2025) – Current Average:** 85.4% (Distinction)
- Relevant Coursework: Web Development & e-Commerce, Object-Oriented Programming (C++, C#, Java), Database Systems, Data Structures & Algorithms, Network Security, AI Techniques

Skills

- Programming Languages: C++, C#, Java, Python, JavaScript, PHP, SQL
- Web Development: HTML, CSS, JavaScript, PHP, MySQL, RESTful APIs (JAX-RS), JSON
- Databases: MySQL, MongoDB, Neo4j, Oracle DBMS
- Frameworks and Tools: NetBeans, Visual Studio, MySQL Workbench, Cisco Packet Tracer
- Other: Data Structures (Graphs, Arrays), Algorithms (Kruskal's, Prim's), Network Security (ACLs, VPNs), Raspberry Pi, Arduino, Project Management (Agile, Scrum), Business English

Additional Information

- Languages: English (Fluent), siSwati (Native)
- Interests: Web development, full-stack applications, AI & machine learning, Agile project management, open-source contributions