

Vukona Mudanisi

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PERSONAL DETAILS

Nationality: South African

Gender: Male

Health: Excellent

Languages: Xitsonga (Home Language),
English, IsiZulu

License: No

ID number: 0301285775088

TECHNICAL SKILLS

- Programming Languages: Java, Python, JavaScript (React & Node.js), SQL, PHP
- Databases: MySQL, PostgreSQL
- Tools: UML Diagram, ERD, Git
- Microsoft Office: Word, PowerPoint, Outlook, Excel

SOFT SKILLS

- Analytical Thinking and Problem Solving
- Time Management and Attention to Detail
- Communication: Written and Verbal
- Teamwork and Collaboration
- Adaptability and Willingness to Learn
- Conflict Resolution and Client Service

EDUCATION

Vaal University of Technology

Diploma in Information Technology

Khomanani High School

Grade 12

- ACADEMIC & PRACTICAL PROJECTS

1. Student Information Management System (Group Project)

- Developed a web-based system using React.js (frontend) and Node.js (backend) to manage student records, timetables, and academic performance.
- Designed UML diagrams (Use Case, Class, and Sequence Diagrams) for system analysis and architecture planning
- Implemented a normalized MySQL database with Entity-Relationship Diagrams (ERD) to ensure data integrity and efficient querying
- Conducted user acceptance testing (UAT) and created training materials for stakeholders.

2. E-Commerce Platform with Agile Methodology

- Built a full-stack e-commerce web application featuring user authentication, product catalogue, shopping cart, and payment integration.
- Utilized Agile (Scrum) for iterative development, including sprint planning and retrospectives
- Created Business Requirements Documents (BRD) and User Stories to align with client needs
- Implemented backend APIs using Django and integrated with PostgreSQL for inventory and order management
- Delivered a stakeholder presentation highlighting cost-saving outcomes and scalability recommendations.

3. Library Management System

- Designed and developed a desktop application using Java Swing and MySQL to automate book tracking, borrower management, and overdue alerts
- Applied database normalization techniques to minimize redundancy and ensure data accuracy.
- Generated reports on borrowing trends and inventory status using SQL queries

4. Mobile Expense Tracker App

- Developed a cross-platform mobile app using React Native to track expenses, categorize spending, and generate budget reports

- Integrated local storage (SQLite) and cloud synchronization for real-time data access.
- Conducted usability testing and deployed the app on Google Play Store.

5. IoT-Based Smart Home Automation

- Designed a prototype system using Python and Raspberry Pi to control lights and appliances via a mobile interface
- Implemented MQTT protocols for device communication and built a responsive web dashboard.

