

PHUMLA SITHOLE

Graduate Software Developer | Electrical Engineering & IT Professional |
Passionate about Software Development & Testing

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SUMMARY

Detail-oriented graduate with a unique combination of Electrical Engineering and IT Systems Development qualifications, offering practical experience in software development, backend systems, SQL databases, and hardware/software integration. Strong foundation in coding (C#, Java, Python), troubleshooting, and problem-solving, with an interest in software testing and quality assurance. Eager to contribute technical and analytical skills in an innovative, collaborative environment.

EDUCATION

Mangosuthu University of Technology

National Diploma in Electrical Engineering
2016 – 2019

WeThinkCode

Diploma in Systems Development (IT)
2022 – 2024

University of South Africa (UNISA)

Advanced Diploma in Information Resource Management
2025 – In Progress

SKILLS

- Programming & Development: C#, ASP.NET MVC, Java, Python, Node.js, JavaScript
- Software Testing & Quality Assurance: Basic understanding of testing concepts; JUnit, QA testing; keen interest in software testing methodologies
- Databases: SQL Server, PostgreSQL, MongoDB, Stored Procedures, Migrations
- Frameworks & Tools: Visual Studio, Entity Framework, Express.js, Git
- Electrical Engineering: Power Systems, Preventive Maintenance, Microcontroller Interfacing, IoT Hardware Integration
- Other Skills: RESTful APIs, CRUD Operations, Troubleshooting

REFERENCES

Available upon request

PROFESSIONAL EXPERIENCE

Software Developer

City of Johannesburg (COJ) | 2024 – 2025

- Developed and maintained backend systems using C# ASP.NET MVC with secure authentication.
- Wrote and optimized SQL queries and stored procedures to improve application performance.
- Collaborated with developers to troubleshoot issues and implement system improvements.
- Participated in testing and validating system functionality to ensure uptime and reliability.
- Gained exposure to incident logging, maintenance reporting, and documentation best practices.

Junior Technician

The MakerSpace | 2019 – 2020

- Integrated hardware and software systems for IoT-based projects, ensuring seamless communication between sensors and microcontrollers.
- Performed preventive and corrective maintenance on electrical equipment to maintain operational safety.
- Operated and maintained 3D printers and laser cutting machines, troubleshooting equipment faults.
- Managed stock control and contributed to maintaining a safe, efficient workspace.

PROJECTS

Expense Tracker Web App

- Built RESTful APIs and backend systems using Node.js, Express.js, and PostgreSQL.
- Implemented secure user authentication, data validation, and real-time data monitoring.

CRUD Blog Application

- Developed full-stack functionality using Node.js, Express, and MongoDB.
- Managed data storage, CRUD operations, and authentication protocols.