

## **SIYABONGA T. SITHOLE**

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South African Nationality | Driver's License (Code EC, PDP valid to 20/08/2025)

## **PROFESSIONAL SUMMARY**

I am a Motivated and detail-oriented Software Developer and IT Support Specialist with strong academic background in software development, machine learning, and cybersecurity. Experienced in full-stack development, data analysis, and IT troubleshooting, with a passion for solving complex problems, building digital solutions, and excelling in collaborative and high-pressure environments. Proficient in Python, Java, C++, C#, JavaScript, and database management, with a proven record of participating in national datathons and delivering actionable data-driven insights. Eager to apply advanced digital skills in a dynamic professional setting and contribute to CAPACITI's intensive training and internship experience.

## **TECHNICAL SKILLS**

- **Programming Languages:** Python, Java, C++, C#, JavaScript, HTML, CSS
- **Specializations:**
  - Java Development
  - Cybersecurity Fundamentals
  - Data Analysis & Predictive Modeling
  - Automation Scripting & Software Testing
- **Machine Learning/Data Science:** Scikit-Learn, MATLAB, Pandas, NumPy, Matplotlib, Seaborn, Plotly
- **Web & Application Development:** Streamlit, Angular, Ionic, Full-stack Web Apps
- **Database Management:** MySQL, SQL Server (basic)
- **Networking & IT Support:** Packet Tracer Network Simulations, PC Hardware Troubleshooting
- **Productivity & Collaboration:** Microsoft 365, Agile & Waterfall Methodologies
- **Reporting & Dashboards:** Power BI, Data Visualization Tools

## **EDUCATION**

### **Mangosuthu University of Technology**

Diploma: Software Development (Final Year, NQF Level 6)

Key Coursework: Software Engineering, Machine Learning, Databases, Computer Networks

### **Drakensberg Secondary School (Matric, 2021)**

Subjects: English (HL), IsiZulu (FAL), Mathematical Literacy, Life Sciences, History, Geography

## **PROFESSIONAL EXPERIENCE & PROJECTS**

### **Datathon Competitions - National Level**

- **IBM Datathon 2024:**
  - Participated in the Fake Email Detection Challenge, developing and evaluating machine learning models using Python and Scikit-Learn. Led data cleaning, visualization, and presentation of actionable findings to judges.
- **DIRISA Datathon 2024:**
  - Delivered a data-driven solution, applying advanced analytics and presenting solutions for real-world problems. Enhanced teamwork, rapid problem-solving, and stakeholder communication skills.
- Created interactive dashboards using Streamlit and Power BI, enabling data-driven insights for decision-makers.

### **Software Development Projects**

- Built web-based applications (JavaScript): calculator, temperature converter, countdown timer, user login system.
- Developed a personal portfolio website (HTML, CSS, JS), showcasing technical capabilities.
- Designed and implemented full-stack systems, integrating both backend and frontend technologies.

### **Networking & IT Support**

- Completed network simulations (Packet Tracer), covering configuration, troubleshooting, and diagnostics.
- hands-on PC troubleshooting: hardware installation, repairs.

## Cybersecurity Simulation Experience

- Participated in an interactive Cyber Investigator simulation (IBM SkillsBuild), responding to simulated cyber-attacks, conducting digital forensics, and applying cybersecurity best practices.

## CERTIFICATIONS

- IBM Data Analyst Professional Certificate (Coursera/IBM SkillsBuild)
- Google Coursera: Technical Support Fundamentals
- IBM SkillsBuild: Cybersecurity Fundamentals
- Cyber Investigator: Interactive Cybersecurity Experience
- Datathon Participation Certificates – Machine Learning & Data Analysis
- Protech College Certificate: Cashier/IOS

## ADDITIONAL INFORMATION

- **Eligibility:** South African citizen, aged 18–34, available full-time (Monday–Friday), immediately available for the 12-month program, not currently in any other learnership/graduateship.
- **Communication:** Excellent verbal and written English, strong teamwork and independent working capabilities.
- **Driver's License:** Code EC with PDP (Valid to August 2025)
- **Personal Attributes:** Adaptable, resilient, eager to learn, open to embrace new and challenging opportunities, quick to master emerging technologies. No criminal or credit record.

## REFERENCES

Mr. XP Piyose

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