

Mahlatse Thupana Makgati

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Driver's License and own vehicle



[Mahlatse007.github.io](https://github.com/Mahlatse007) or
mahlatsemakgati.liveblog365.com



Objective

I hold a Bachelor's degree in **Applied Mathematics and Computer Science**, with a strong passion for programming and delivering robust solutions that meet and exceed client expectations. Proficient in a variety of programming languages including C++, Python, R as well as front-end technologies such as HTML, CSS, and JavaScript. I am dedicated to continuous learning and thrive in the dynamic and rapidly evolving landscape of Computer Science and IT, always seeking opportunities for growth and innovation.

Education

BSc Applied Mathematics and Computer Science University of South Africa	December 2022
National Senior Certificate Northern Academy	December 2016

Skills / Strengths

Technical skills	Software/ web/ data analytics skills	Research Skills
C++ Python R HTML CSS JS jQuery Bootstrap MySQL SQL Server Database	Model View Controller Object Orientated Programming Design patterns XML PowerBI Git, Github Linux, Unix Microsoft office 365 Office administration tools Moodle administrator WordPress	Data collection Data visualization Data/ information analysis Critical thinking Problem solving Diagnosing Troubleshooting SOP ITIL

Experience

Application Support Administrator | Cartrack
Rosebank, Johannesburg

May 2023 – Current

- My role involves providing technical support to technicians, ensuring the smooth operation of applications, server and database management, resolving issues that may arise, and collaborating with development teams to implement enhancements or updates.
- **Tools and Skills acquired:**
 - Technical Proficiency: Mastering PostgreSQL alongside Python, understanding software architecture and troubleshooting methods with Postgres.
 - Problem-solving Skills: Developed adeptness in diagnosing and resolving issues in PostgreSQL-based applications
 - Collaboration: Worked seamlessly with development teams to implement PostgreSQL enhancements and updates, leveraging Python.
 - Adaptability: Quickly adapted to changes in PostgreSQL and Python technologies and methodologies.

Junior IT Administrator | GP Retail Operations (PTY) LTD
Midrand, Johannesburg

June 2023 – January 2024

- I ensured smooth IT operations by promptly resolving day-to-day issues with IT systems specifically: Moodle (Content Management System) and implementing security measures aligned with industry best practices and organizational standards. Regular backups were maintained to prevent data loss, and strict adherence to ICT standards and government enterprise architecture was observed. I applied my expertise in ITIL best practices and maintained detailed documentation. I collaborated effectively with internal and external team, demonstrated proficiency with Microsoft office tools.
- **Tools and Skills acquired:**
 - Content Management System: Moodle - created and managed online courses and e-learning.
 - Operating Systems: Windows, MacOS, Windows Server, Linux, or Unix.
 - Remote Desktop Software: TeamViewer or Remote Desktop Protocol (RDP) for remote support and troubleshooting.
 - Collaboration Tools: Microsoft Teams, Google Meet, Slack, or Zoom for communication and collaboration with team members.
 - Backup and Recovery: Backup strategies and tools for data protection and disaster recovery for Moodle.
 - Security: Understand fundamental security principles, including access control, encryption, firewalls, and malware protection.

IT Support Technician | SAICA (APC) – Client (Dial-a-nerd)
Midrand, Johannesburg

(One day) 6 December 2023

- I honed my technical skills during APC examination, I offered technical assistance and support to ensure the smooth operation of software and equipment. Swiftly addressing any technical issues minimized disruptions and maintained an efficient examination process. Identifying and resolving irregularities promptly contributed to upholding the integrity of the examinations. I diligently reported

any irregularities to the appropriate authorities for further investigation and resolution. Additionally, I ensured strict adherence to protocols outlined by SAICA for conducting the APC examination.

- **Tools and Skills acquired:**

- Diagnosing and resolving hardware and software issues in a timely manner to minimize disruptions.
- Desktop operating systems.
- SOPs and software standards.
- Information Technology Infrastructure Library (ITIL).
- Backup utility.

Junior Data Analyst/Software Developer | Velocity Media
Remote

April 2023 – May 2023

- I collected data from Apify scrapers in various formats such as JSON, CSV, Excel or use APIs, meticulously refining the data to guarantee precision and dependability. Utilized advanced statistical techniques to perform thorough data analysis, extracting valuable insights essential for informed decision-making. Conducted exploratory data analysis (EDA) and seamlessly I integrated findings into WordPress to ensure relevance for clients and viewers (publish).

- **Tools and Skills acquired:**

- Data Collection: Utilized APIs and leveraged Apify scrapers to crawl websites for data acquisition.
- Preprocessing/Data Cleaning: Used Python libraries like NumPy and Pandas for data cleaning tasks. Checked for data integrity issues and resolve any inconsistencies.
- Exploratory Data Analysis (EDA): Explored the dataset to understand its characteristics, patterns, and relationships using Matplotlib, PowerBI And descriptive statistics.
- Deployment and Integration: Ensured seamless integration with WordPress for clients and views.

Field Marketer | Batho Pele (PTY) Ltd
Norwood, Johannesburg

February 2023 – March 2023

- I made sure products are displayed and sold in the best way possible. I worked closely with the sales team to decide which products to order. Then, I plan where and how to display them in stores to attract customers' attention. I also keep track of inventory levels and order new stock when needed. Analyzing sales data to understand what's selling well and what's not, so we can make better decisions in the future. Overall, I was responsible for making sure our products look great, are available when customers want them, and sell as much as possible.

- **Tools and Skills acquired:**

- Effective written and verbal communication.
- Time management.
- Attention to detail.
- Communication skills.

Training and Certifications

Python and Django Full Stack Web Developer Bootcamp | Udemy

Current

- HTML5, CSS3, JavaScript, jQuery, Bootstrap 3 and 4, Document Object Model, Python, Django, ORM, Class-Based Views, REST APIs, User Authentication.

The Data Analyst Course: Complete Data Analyst Bootcamp | Udemy

February 2024

- Theory about the field of data analytics, Advanced Python, NumPy, Pandas, Working with text files, Data collection, Data cleaning, Data preprocessing, Data visualization.

Technical Support Fundamentals | GOOGLE, Coursera

February 2023

- Hardware, Software, Operating Systems, Networking, Troubleshooting.

Projects

- "Myportfolio"

Web-based application developed using HTML, CSS, JavaScript, and Bootstrap to showcase personal details and a curriculum vitae (CV): Mahlatse007.github.io or mahlatsemakgati.liveblog365.com

The portfolio project aims to:

Present personal details, such as name, contact information, and a brief introduction.

Showcase professional accomplishments, skills, and experiences through a curriculum vitae (CV).

Utilize responsive design principles to ensure optimal viewing experience across various devices and screen sizes.

Enhance visual appeal and user experience through custom styling and interactive elements.

- "Credit Risk Model"

Data cleaning and manipulation Using Numpy library (Python):

<https://github.com/Mahlatse007/CreditRiskModel>

This script is designed to preprocess loan data stored in a CSV file named "loan-data.csv". It performs various data cleaning and manipulation tasks to prepare the data for further analysis. The preprocessing steps include handling missing values, converting string data to numeric format, normalizing currencies, and sorting the dataset.

- "Absenteeism"

Preprocessing data using Pandas library (Python): <https://github.com/Mahlatse007/Absenteeism>

This script aims to preprocess absenteeism data stored in a CSV file named "Absenteeism-data.csv" using the Pandas library. It performs various data cleaning and manipulation tasks to prepare the data for further analysis. The preprocessing steps include dropping unnecessary columns, encoding categorical variables, extracting features from the date column, and reordering columns.

- "Bank-QXML"

Banking Application developed using QtCreator (C++): <https://github.com/Mahlatse007/Bank-QXML>

It provides a graphical user interface (GUI) for managing banking transactions and includes various sorting algorithms for data manipulation.

Features:

Graphical user interface (GUI) built using Qt framework for user interaction. Implements various sorting algorithms such as insertion sort and selection sort. Allows users to perform banking transactions including deposits, withdrawals, and transfers. Supports reading and writing transaction data from/to files. Utilizes an abstract factory design pattern for creating sorting algorithms dynamically.

- "Books,"

Developed using the Qt framework (C++): <https://github.com/Mahlatse007/Books>

This project, named "Books," is developed using the Qt framework, which provides essential modules for graphical user interface (GUI) development. The project utilizes Qt's core and GUI modules to create a user-friendly interface for managing books.

In addition to the core and GUI modules, the project includes the Qt Widgets module, which enhances the user interface with interactive components and functionalities.

References

Sanele | GP Retail Operations, Midrand | sanele@gpretail.co.za

Lauren | Dial-a-nerd, Midrand | lauren.uffindell@adcorpgroup.com

Basil | Batho Pele , Norwood | basil@bathopelefmcg.co.za

Geraldine | Velocity Media, remote | geraldine@velocitymedia.co.za

*Documents and certifications are available upon request.