Manatsa Shara Mbanje

Contact Details

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Shara-Alex (github username and link)

Professional Statement

Enthusiastic and detail-oriented Informatics graduate with a strong foundation in software development, data analysis, and system management. Experienced in leveraging Python for data-driven solutions and creating automated trading systems. Adept at working with databases using MySQL and pgAdmin, and proficient in Linux systems focusing on bash scripting. Dabbled in frontend development through HTML and javascript frameworks. Worked with C# and restful API services through python and kotlin. Demonstrated ability to apply technical skills in real-world scenarios, including developing a trading bot using MetaTrader and Python and committed to continuous learning and eager to contribute to innovative projects in a dynamic work environment.

Skills

- **Data Analysis & Processing:** Proficient in **Python (Pandas, NumPy, Matplotlib) and SQL** for cleaning, processing, and analyzing large datasets.
- **Power BI** – Proficient in building interactive dashboards, data models, and visualizations; experienced in transforming raw data into actionable business insights.
- **TCP/IP, DHCP, and DNS** configuration.
- **Hardware repair** and diagnostics for desktops, laptops, and peripherals.
- Familiarity with **asset tracking tools** and IT documentation protocols.
- Proficiency in **Bash scripting and automation** to streamline repetitive tasks.
- **Canva and CapCut.** Video editing and graphic design through the use of canva and CapCut for social media posts and designing posters and graphic images.
- **Database & Cloud Management:** Skilled in writing and optimizing SQL queries, managing PostgreSQL and AWS NoSQL databases, and using AWS services (VPC, EC2).
- **Scripting & Automation:** Experienced in automating tasks using Python and Bash scripting, with Cron job scheduling.
- **Image Annotation:** Proficient with ImageJ for precise image labeling and annotation.
- **Containerization & API Integration:** Familiar with Docker for containerization and executing API requests for system enhancements.
- **Additional Technical Tools:** Exposure to Google BigQuery, Firebase Analytics, and basic programming in Kotlin, Java and C#. Basic HTML know how.
- **Excel. Proficient in using Excel such as utilising functions like VLOOKUP, HLOOKUP, INDEX-MATCH,** and pivot tables. I am adept at creating complex formulas, macros, and automated workflows,

- **Soft Skills:** Strong collaboration, communication, process optimization, attention to detail, and adaptability in diverse, cross-functional team environments.

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Experience & Achievements.

Coresthetics / Software Engineer intern
September 2022 - August 2023, Johannesburg South Africa

Duties & Responsibilities:

- Utilized **AWS services, including VPC, EC2, and AWS NoSQL database structures** to support backend operations.
- Executed **API requests using Python** to facilitate database interactions and system enhancements.
- Managed and executed **SQL database queries (using PostgreSQL)** to improve system performance.
- Configured and maintained **Linux environments**, ensuring security, stability, and efficiency.
- Implemented **Cron job scheduling and developed Bash scripts** to automate routine tasks.
- Assisted in **Docker containerization** efforts to streamline application dependency management.
- Developed **Python scripts for data analysis, processing JSON data** from Cartrack to track motorcycle activity. Contributed in the design and implementation of **responsive web applications** using modern frontend and backend technologies. Processed, analyzed, and visualized datasets using **Python**, providing actionable insights.
- Utilized **Power BI** to develop real-time dashboards and interactive reports that supported executive decision-making.
- Automated **reporting processe**s, reducing manual effort and improving data visibility.
- Explored and applied tools such as **Google BigQuery and Firebase Analytics.**
- Gained exposure to fundamental programming in **Kotlin and Java**.

Achievements:

- Enhanced database efficiency by **optimizing SQL queries**, leading to faster and more reliable data retrieval.
- Streamlined operations by automating key processes through **Bash scripting and Cron job scheduling.**
- Contributed to a more robust deployment process via Docker containerization, improving application reliability.
- Developed innovative **Python script**s that provided **actionable insights from complex JSON datasets.**
- Expanded technical proficiency across a diverse technology stack, demonstrating rapid adaptability to new tools and programming languages.
- Contributed to a **startup** focused on fitness technology, leading development efforts for web and mobile applications.
- Implemented **Docker practices** to containerize applications, streamlining deployment and system integration.
- Managed **Amazon Web Services (AWS)** for hosting, storage, and deployment of applications along with virtualization techniques through **Hyper v**.
- Built and deployed **RESTful APIs** using **Python and Kotlin**, enabling smooth

communication between services.

LabelAI hub / Image annotator

December 2024 - Bulawayo
Part time remote work

Duties & Responsibilities:

- Cleaned and processed large datasets using **Python (Pandas, NumPy, Matplotlib) and SQL.**
- Wrote and optimized **SQL queries** for data extraction and analysis.
- Automated repetitive **data tasks through scripting**.
- Conducted **statistical analysis** to support decision-making.
- Labeled and **annotated images using ImageJ**, working with bounding boxes, segmentation, and keypoint annotations.

Achievements:

- Improved overall **data accuracy and processing efficiency.**
- Enhanced **SQL query performance**, streamlining **data extraction and analysis.**
- Boosted operational efficiency by **automating key data tasks.**
- Maintained **high annotation accuracy,** contributing to improved AI model performance.
- Successfully **labeled and annotated over 1,000 images**, consistently meeting tight deadlines (completing 3+ annotation tasks per week).

HOCIC (Hope for a Child in Christ) / Enumerator

February 2020 - March 2020, Bulawayo

- Collected and Verified Data – Successfully gathered and validated survey data from over **500** respondents, ensuring accuracy and completeness.
- Conducted Field Surveys – Interviewed diverse populations, adapting communication strategies to different demographics.
- Improved Survey Efficiency – Reduced data collection time by **50%** through effective planning and streamlined processes like route planning and optimization along with effective divide and conquer practices.
- Handled Sensitive Information – Maintained **confidentiality and ethical standards** while collecting personal or sensitive data.
- Achieved High Response Rates – Successfully engaged respondents, achieving an **80% response rate** within targeted deadlines.
- Provided Detailed Reports – Compiled and submitted **daily/weekly reports**, highlighting key findings and observations.

Education

National University of Science and Technology / BSc honours in Informatics
August 2020 - August 2024, Bulawayo Zimbabwe
2.1 (Upper First Class degree awarded)

The informatics degree equips an individual with a comprehensive skill set to excel in the realm of data management, analysis, and problem-solving. With a strong foundation in various informatics methods, I can effectively harness the power of data for informed decision-making and valuable insights.

Key Highlights:

- Proficient in data management, including database utilisation and data cleaning techniques.
- I am experienced in data analysis, employing statistical methods and machine learning for actionable outcomes.
- Skilled in data manipulation using programming languages like Python and R, enabling tailored solutions to complex data challenges.
- Well-versed in problem-solving methodologies, utilising frameworks like CRISP-DM for structured data analysis projects.

This degree has empowered me to be a versatile data professional capable of interpreting data and effectively communicating results to diverse audiences through verbal, visual, and written formats. I am poised to contribute to any data-driven organization or project.

CompTIA / A+ Comptia Certification
March 2022 - April 2023, Johannesburg South Africa

The CompTIA A+ certification validates my expertise in the field of IT and technology, making me a proficient and reliable professional for various roles in the industry.

Key Highlights:

- Certified in essential IT skills, hardware and software troubleshooting, and technical support.
- Proficient in diagnosing and resolving a wide range of hardware and software issues.
- Well-versed in configuring, upgrading, and maintaining various hardware and operating systems.
- Skilled in providing effective technical support and solutions to end-users and organizations.

The CompTIA A+ certification demonstrates my commitment to excellence in IT, enabling me to contribute effectively to the success of technology-driven projects and teams.

Advanced level
January 2018 - November 2019, Bulawayo, Zimbabwe
3 A Level passes in Mathematics, Economics and Geography

<u>Ordinary level</u>
<u>January 2014 - November 2017, Bulawayo, Zimbabwe</u>
11 O Level passes

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Languages

English - Fluent language proficiency

Ndebele -Fluent language proficiency

Shona - Fluent language proficiency

NB: References to be provided upon request.