



JOHAN KHANYE

PYTHON DEVELOPER | DATA SCIENCE & ENGINEERING | WEB DEVELOPER

SUMMARY

Experienced & Studious Data Engineer & Python Developer with 7 years of expertise in data science, data engineering, and web development. Successfully processed 5M+ records daily while working for the country's largest insurance provider, leveraging Microsoft Azure's cloud computing stack. Proficient in Python, SQL, and cloud-based data pipelines, with a strong focus on scalability and efficiency. Passionate about exploring new technologies, leadership opportunities, and diverse work cultures. Seeking a role that fosters innovation, management skills, and hands-on experience with emerging tools.

WORK EXPERIENCE

- **3262 Mooki Rental Properties | Family** 2023 - PRESENT
Systems developer & property manager
 - **Independently designed, developed & manage a full-featured property management system** to streamline operations.
 - **Automated key processes** to reduce manual workload by handling:
 - **Issue tracking** for concerns, repairs & maintenance requests.
 - **Rental & Security deposit** payment reminders & management.
 - **Digital lease signing & document** storage & access.
 - **Automated notice generation**
 - **Minimized in-person interactions:** All related tasks are handled digitally.
 - **Project management & version control:** Solely responsible for the app's development lifecycle, utilizing & Git via CLI for version control.
 - **Hosting & Scalability:** Currently self-hosted on a local intranet, but built with scalability in mind for broader deployment.
 - **Tech Stack:** Django, JavaScript, Unicorn, PostgreSQL, Git & GitHub.
- **Telsure Investment Holdings** 2019 - 2023
Data Engineer
 - **Designed, optimized, and maintained data pipelines** processing ~15M rows across 10+ columns, reducing processing time from ~12 hours to 2-3 hours.
 - **Enhanced pipeline efficiency** by running parallel processes during data ingestion with **Azure Data Factory**.
 - Leveraged a diverse tech stack, primarily working with **Databricks, SQL, Python, and Spark**, with occasional **APIs** integrations & use of **AWS SQL, Microsoft SQL Server, IBMi AS400 (RPG & RPGLE)** and other tools.
 - **Improved data processing workflows** for high availability, scalability, and faster insights for the DnA department.
 - **Collaborated in an Agile** manner adhering to **Scrum methodologies** to enhance team productivity and streamline development cycles.

CONTACT

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- 🌐 [Portfolio](#)
- 🌐 [Johan Khanye](#)

EDUCATION

- 2012 - 2017**
VULANINDLELA SECONDARY
 - Bach. NSC: NQF Level 4
 - **Focus:** Physical Sci & Mathematics.
- 2018 - 2019**
UMUZI ACADEMY - LEARNERSHIP
 - National Certificate: NQF Level 5
 - **Focus:** IT: Systems Development

TECHNICAL SKILLS

- **Debugging & Testing, Data Analysis & Engineering, OS & Command Line**

Programming Languages

- **Proficient:** Python, SQL, JavaScript, IBMi rpg/LE
- **Familiar:** Entry-level Java (theoretical knowledge),

Data Engineering & Big Data

- **Data Pipelines & ETL:** Azure Data Factory, Apache Airflow, Cron Jobs
- **Big Data Processing:** Apache Spark, PySpark, Apache Hadoop
- **Job Automation & Orchestration:** Apache Airflow, Azure Data Factory

Databases & Storage

- **Relational:** PostgreSQL, Microsoft SQL Server, DB2, SQLite, MySQL
- **NoSQL:** GraphQL

TECHNICAL SKILLS

- **Cloud Storage:** Google Cloud Storage, Azure Blob Storage

Cloud Technologies & DevOps

- **Cloud Platforms:** Microsoft Azure, Google Cloud
- **CI/CD & Version Control:** Git, GitHub, GitHub Projects, Git Workflow
- **Infrastructure & Scripting:** Bash, Linux, Windows OS, CMD

Machine Learning & Data

Science (Relevant for Data

Engineering)

- Data Cleaning, Preprocessing, and Feature Engineering
- ML Model Deployment & Pipelines
- **Tools:** Scikit-Learn, Pandas, NumPy
- **Data Visualization:** Seaborn, Plotly

Back-End & Web Development

- **Frameworks:** Django, Django Rest Framework, Pyramid
- RESTful APIs, GraphQL
- **Front-End:** React.js, Next.js, HTML, CSS, Bootstrap, jQuery

Software Development &

Methodologies

- **Agile & Scrum, TDD, Unit Testing**
- **OOP, Functional Programming**
- **Design Patterns & Scalable Software Architecture**

SOFT SKILLS

- **Attentive, Studious & Adaptable, Basic UX/UI Design, Teamwork, Spoken & Written Communication, Time Management, Research and Development Patience & Perseverance**

WORK EXPERIENCE (Continued)

● Umuzi Academy

2018 - 2019

Junior Python Developer

- Initially employed under a Fixed Term contract, my hard work and dedication paid off after the contract term, I was employed as permanently.
- **Online Courses:** Completed a number of MOOCs on Data Sciences, Data Engineering, and Python w/ high scores.
- Collaborated with a team to identify data-driven opportunities for increasing stakeholder and client engagement.
- Assisted Umuzi in data-driven decision-making by delivering Machine Learning models and analytical reports.
- Developed solutions to automate processes, leveraging data science methodologies and predictive modeling.
- **Tech Stack & Tools:** Python, Data Science, ML Models, Agile & Scrum, GitHub, Data Cleaning, Processing, Storage, Analytics & More.

● Prelude Technologies

2018 - 2019

Junior Python Developer | Internship

- Designed and developed software solutions based on client problem statements using Python and Agile methodologies.
- Applied Test-Driven Development (TDD) to ensure software reliability and efficiency.
- Built and Integrated a RESTful API solution, built on **Pyramid framework** the solution integrated the YouTube API to store large video files which were streamed from the File System to the service.
- Worked under the mentorship of **Sheena O'Connell** (now CTO of Umuzi Academy), gaining hands-on experience in software architecture and best practices.
- **Tech Stack & Tools:** Python 3, Pyramid Framework, REST APIs, Pytest, Agile & Scrum, GitHub, Trello, Slack, Curl, VS Code, OOP, Functional Programming, Refactoring.

● CSIR (Council for Scientific and Industrial Research)

2018 - 2019

Intern Data Scientist | Internship

- Analyzed large-scale electricity usage data for the eKurhuleni municipality to identify electricity theft and user consumption patterns.
- Preprocessed and cleaned large CSV datasets to ensure data consistency and reliability.
- Utilized data visualization (Plotly, Seaborn) to extract insights and detect anomalies.
- Developed and tested Machine Learning models to classify different user behaviors and detect fraud.
- Implemented train-test split strategies to ensure model validation and performance accuracy.
- **Tech Stack & Tools:** Python, Jupyter Notebook, Pandas, NumPy, Scikit-learn, Git, Agile & Scrum, Plotly, Seaborn, K-Means Clustering, Unit Testing, Data Cleaning & Processing.

REFERENCE

"References available upon request."