

SECHABA ITUMELENG MOHLABENG

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CAREER SUMMARY

Dynamic and results-driven Engineer with a background in Quantity Surveying (Hons) and proven expertise in designing, building, and optimizing scalable data systems. Skilled in **AWS cloud technologies, ETL pipeline development, and data analytics**, with hands-on experience delivering end-to-end software and data solutions. Adept at extracting actionable insights, **architecting robust applications**, and driving business impact through data-driven strategies. Passionate about solving complex technical challenges and continuously advancing engineering excellence.

EDUCATION

Higher Certificate in Information Technology Systems, Data Engineering <i>Explore AI Academy</i>	Graduated: Dec 2024
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Bachelor of Science (Hons), Quantity Surveying <i>University of the Witwatersrand</i>	Graduated: Dec 2023
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Bachelor of Science, Construction Studies <i>University of the Witwatersrand</i>	Graduated: Dec 2022
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CERTIFICATIONS

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| • AWS Certified Cloud Practitioner, AWS | Achieved: 2022 |
| • S201 and S202 Digital Planning with Candy, RIB CCS Academy | Achieved: 2021 |

WORK EXPERIENCE

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| Software Engineer (Graduate/Junior)
Claimtech Remote | Jan 2025 – Aug 2025 |
| <ul style="list-style-type: none">Built scalable features in a Laravel + Vue.js system, including server-side pagination, filtering, and dynamic UI components.Developed an ensemble-based matching system using OpenAI, Gemini, and Levenshtein logic for intelligent claim validation.Documented workflow automations (crons, webhooks, status transitions) through technical diagrams and enhanced developer onboarding documentation. | |
| Data Engineer (Internship)
Sand Technologies Remote | Sept 2024 – Dec 2024 |
| <ul style="list-style-type: none">Led the development of a universal web scraper with proxy management and pagination for dynamic websites.Built scalable data pipelines to automate attendee data integration for sales.Managed AWS infrastructure, ensuring secure and efficient data storage and retrieval. | |
| Data Engineer (Apprenticeship)
Explore AI Remote | Jan 2024 – Aug 2024 |
| <ul style="list-style-type: none">Worked on automating data integration for sales pipelines, ensuring efficiency and accuracy in business processes. | |

- Gained hands-on experience with **AWS services, SQL, Python, and Apache Airflow** while building real-world data pipelines.
- Managed cloud infrastructure, optimizing data storage and retrieval in a secure environment.

Student Quantity Surveyor (Seasonal)

Aug 2020 – Feb 2021

Barrow Construction | Johannesburg, ZA

- Conducted cost analysis and supported **value engineering** efforts to optimize project expenses.
- Monitored project progress and costs, contributing to accurate forecasting.
- Participated in **site visits**, contractor meetings, and negotiations.

TECHNICAL PROJECTS

- **Traffic Optimization Engine: Real-time traffic optimizer** using **Kafka, Spark Streaming**, and **ML** for live route planning and congestion prediction, with a **React dashboard**.
- **Real-Time Financial Market Data Pipeline**: Engineered a **real-time** pipeline processing **market data** for time-sensitive trading analysis using **Docker, Apache Airflow, and PostgreSQL**.
- **End-to-End Crypto Twitter Data Pipeline**: Built a pipeline with **Twitter API, Apache Airflow**, and **PostgreSQL** to extract, clean, and analyze crypto-related tweets.
- **Emotions Data Analysis Using Twitter Data**: Analyzed social media messages to identify patterns in emotional expression using Python.

SKILLS

Technical Skills

- **Programming & Query Languages**: PHP, JavaScript, Python, SQL, HTML, CSS
- **Frameworks & Libraries**: Laravel, Vue.js, Tailwind CSS, Blade, Axios
- **Cloud & APIs**: OpenAI API, AWS (S3, Lambda, API Gateway, CloudFront, Route 53)
- **Data Engineering**: ETL pipelines, Data Storage, PostgreSQL, MySQL, Apache Spark, Hadoop
- **DevOps & Tools**: Git, GitHub Actions, Laravel Sail, Docker, Apache Airflow

Interpersonal Skills

- Problem-Solving | Project Management | Effective Communication | Adaptability | Strong multitasking abilities | Highly organized