# ELLIAS SITHOLE

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## PROFESSIONAL SUMMARY

I am a problem-solver by nature, with a strong background in mathematics and a growing career in software development and data science. I hold an MSc in Pure Mathematics from the University of the Witwatersrand and have gained industry experience through internships, professional roles at PepsiCo, and several hands-on personal and collaborative projects. My goal is to merge mathematical thinking and technology to create impactful, data-driven solutions.

## ACADEMIC BACKGROUND

MSc in Pure Mathematics | University of the Witwatersrand, Johannesburg (Jan 2020 – Dec 2021)

- Research dissertation in Graph Theory titled 'A Derived Graph: Triangle Graph of a Graph', supervised by Prof Eunice Mphako-Banda.


BSc (Hons) in Pure Mathematics | University of the Witwatersrand, Johannesburg (Jan 2019 – Dec 2019)

- Focused on Advanced Number Theory.
- Research project: 'Generating Functions in Number Theory.'


BSc in Computational and Applied Mathematics and Mathematics | University of the Witwatersrand, Johannesburg (Jan 2015 – Dec 2018)

- Majors: Pure Mathematics, Applied Mathematics, Physics, Chemistry.

## EMPLOYMENT HISTORY

Intern Junior Developer | NVisionIT (Hybrid) (Nov 2024 – Jan 2025)

- Assisted in developing commercial web applications.
- Collaborated with development teams on various projects.
- Applied user-centered interaction design principles.
- Worked with modern web frameworks and technologies.

- Wrote and tested application code.

SC Planning Representative – Network Transformation (Network Modeller) | PepsiCo, Isando, Kempton Park (Jan 2023 – Dec 2023)

- Implemented data-driven strategies to optimize operational efficiency.
- Engaged with multiple teams to gather data and build network models.
- Validated input data for accuracy.
- Incorporated stakeholder assumptions into models.

Finance & Revenue Management Graduate | PepsiCo, Isando, Kempton Park (Aug 2021 – Jan 2023)

- Completed 18-month graduate program with rotations in R&D, Supply Chain, Commercial, and Finance.
- Worked on projects like Sustainability WECA and Brand Ladder Pricing Index.
- Led a specialty project in Net Revenue Management to reduce expired stock levels.

## KEY SKILLS

Languages: JavaScript, SQL (T-SQL), HTML, CSS

Tools & Frameworks: Power BI, Power Apps, SSMS, Git, GitHub, VS Code

Other: Microsoft Office, LaTeX, SpatialXL

Soft Skills: Data Analysis, Creativity & Innovation, Quantitative Research, Adaptability & Flexibility Management, Customer Engagement, Problem Solving & Critical Thinking, Teamwork & Collaboration, Work Ethic & Dependability

## CERTIFICATIONS

- Project Management Fundamentals – Project Management Institute (2021)
- Microsoft Certified: Power Platform Functional Consultant Associate (2024)
- Microsoft Certified: Power Platform Developer Associate (2024)
- Microsoft Certified: Dynamics 365 Sales Functional Consultant Associate (2024)

## ACHIEVEMENTS

- Contributed to a cross-functional project that improved company ESG rating
- Redesigned delivery schedules for three regions, resulting in an 8% increase in delivery productivity.
- Developed GitHub portfolio of JavaScript and SQL projects demonstrating problem-solving and clean code practices.

## PROJECTS

- **Weather App – JavaScript | HTML | CSS**
  Simple and responsive weather web application that allows users to search for current weather conditions in any city.
  GitHub: https://github.com/BabaKaElijah/weather_app
- **Netflix Shows Analysis – Excel | SQL**
  This project involves a comprehensive analysis of Netflix's movies and TV shows data using SQL. The goal is to extract valuable insights and answer various business questions based on the dataset.
  GitHub: https://github.com/BabaKaElijah/netflix_shows_analysis

- **Password Generator App – JavaScript | HTML | CSS**
  A simple and responsive password generator built with HTML, CSS, and JavaScript. It allows users to generate secure passwords containing uppercase letters, lowercase letters, numbers, and symbols—with the option to copy the password to the clipboard with a single click.
  GitHub: https://github.com/BabaKaElijah/random_password_generator_app

- **Motor Collisions Analysis – Excel | SQL**
  This project involves analyzing a dataset of motor vehicle collisions to uncover insights about crash patterns, contributing factors, and vehicle characteristics. The dataset includes detailed information on each collision such as date, time, vehicle details, driver information, and damage reports.
  GitHub: https://github.com/BabaKaElijah/Motor_collisions_analysis_2025

Additional projects available on GitHub: https://github.com/BabaKaElijah?tab=repositories