

Nonhlanhla Dzunani Sekhula

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About me

I am a recent Computer Science graduate from the University of the Witwatersrand and a Data Analytics graduate at ALX, passionate about turning data into insights that solve real-world problems and support strategic decision-making. I bring a solid foundation in programming, databases, and full-stack development, along with a curious, analytical mindset. I enjoy uncovering patterns in data, making sense of complexity, and communicating findings in clear, meaningful ways. My interest in analytics and machine learning is matched by my initiative, collaborative spirit, and love for learning. I am excited to contribute to purpose-driven, innovative teams where I can grow and create sustainable impact.

Education

University of the Witwatersrand, BSc in Computer Science Completed July 2025

Relevant Coursework:

- Data Structures and Algorithms
- Database Management Systems (SQL, relational models, data normalization)
- Software Design and Engineering Principles (using HTML, CSS and Javascript)
- Computer Networks (with experience using Wireshark)
- Machine Learning (comparison of learning algorithms and model evaluation)
- Mobile Computing (Android Studio, Java-based Android apps)
- Web Development (React.js, Node.js, Firebase, REST APIs)
- Computational Theory and Algorithm Complexity

Projects

CampusCrave - Campus Dining Services App 2024

- Full-stack development of a meal management platform
- Designed database schema for user meal credits, transactions, and plans
- Built APIs for real-time updates and user interaction tracking
- Collaborated on UI for reservations and feedback collection
- **Tools Used:** JavaScript, MySQL, HTML, CSS, JWT, Google Authentication

Restaurant Order Tracker App 2023

- Team project using Java and SQL to manage restaurant orders
- Created relational database schema for secure and efficient data storage
- Integrated user authentication and order rating functionality
- **Tools Used:** Java, SQL

Snake Game 2022

- Solo web-based game development using Java
- Implemented backtracking algorithms for enhanced gameplay
- Designed interactive UI and game logic
- **Tools Used:** Java

Technologies

Programming Languages: Java, Python, SQL, C#, JavaScript, C++

Web Development: HTML, CSS, JavaScript(React.js, Node.js), Rest APIs

Database Technologies: MySQL, MongoDB

Tools: GitHub, Excel, Pandas, NumPy, PowerBI

Cloud Computing: Alibaba Cloud

Certifications

ALX Professional Foundations Certification	2025
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- Issued by: ALX Africa
- Focus areas: Professional development and technical foundations

ALX Data Analytics	2025
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- Issued by: ALX Africa
- Focus areas: Data analysis techniques and tools

Alibaba Cloud Computing Associate	2024
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- Issued by: Alibaba Cloud
- Focus areas: Cloud infrastructure and services

Alibaba Cloud Security Associate	2024
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- Issued by: Alibaba Cloud
- Focus areas: Cloud security principles and practices

Aspara Clouder - BIG DATA MySQL for Beginners	2024
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- Issued by: Alibaba Cloud
- Focus areas: MySQL database management in big data contexts

Machine Learning Camp	2024
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- Issued by: Amazon Web Services
- Focus areas: Fundamental machine learning concepts