

# BOKANG NTOVANA

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[Linkedin](#) | [GitHub](#)

## EDUCATION

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**University of the Free State**  
Computer Science and Informatics BSc Honours

Bloemfontein, South Africa  
February 2024 - November 2025

**University of the Free State**  
Information Technology BSc

Bloemfontein, South Africa  
February 2020 - November 2022

## EXPERIENCE

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### **QLink Holdings Pty(Ltd) | Data Engineer**

Johannesburg, South Africa | March 2025 - Present

- Perform ETL for the Transactional and Finance departments using SSIS and PySpark.
- Perform Data Reconciliation for the Finance department after extracting data from Sage 300 (AccPac) and loading it into SQL Server.
- Design architecture for data warehouses or lakehouses using SSIS and Fabric with medallion architecture.
- Write Stored Procedures to automate manual tasks for all data warehouses.
- Perform data migration from old legacy systems to newer systems, often from old SQL Anywhere databases, to newer versions like Postgresql.
- Migrate data from existing data warehouses to cloud-based platforms, mainly MS Azure and MS Fabric.
- Develop Custom solutions for specific problems using C#, ASP.NET Core and Python
- Develop and maintain CI/CD Pipelines using Azure DevOps/ Microsoft Fabric/Github Actions
- Version Control using Git Integration in Microsoft Fabric
- Data Analytics for the Finance and Transactional department and external clients using Power BI.
- Implement Row Level Security for Data Warehouses.
- Write and maintain technical documentation for data warehouse processes.
- Maintain and optimise existing databases and warehouses in Finance and Transactional.
- The main tools used for the job: Databases used were SQL Server 2019, Postgresql, and SQL Anywhere. ETL Tools were SSIS 2022 and PySpark. Cloud platforms were MS Azure and MS Fabric, Database migration tool was SQLines, Data Analytics tool was Power BI. Programming languages were C# and Python.

### **Parexel International | Clinical Database Programmer I** Bloemfontein, South Africa | Jan 2023 - Feb 2024

- Implement and execute procedures to build and maintain database set-up for paper-based and/or web-based (EDC) clinical data
- Assist in providing technical solutions to internal or external/client enquiries. Support to build or integrate systems within the GDO Area
- Execute programming languages (C#/SAS/SQL) and processes within the Global Data Operations area.
- Ensure adherence to service level agreements about the turnaround time from when specifications are finalized.
- Maintain all supporting documentation for studies in accordance with standard procedures to ensure traceability and regulatory compliance. This includes the documentation of any deviations and dissemination of these to the rest of the project teams.
- Maintenance of technical documentation of the applicable designed databases

### **Quantify Your Future | Data Science Intern**

Bloemfontein, South Africa | Jan 2022 - March 2022

In early 2022, I joined a quants program created by SAGEA to train students on data related workplace problems. I completed it, and Im now part of the alumni program.

- Data analytics using Power BI and Excel Pivot tables
- Data cleaning using Excel and SQL and Python
- Analyze credit risk using statistical modelling, mostly using Logistic Regression.

I learned from data scientists and statisticians in the finance industry. I got assigned to work under the Absa Bank but I also did some work for Nedbank and Rand Merchant Bank.

## SKILLS

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Programming Languages:	C#, Python, SAS, Kotlin
Libraries/Frameworks:	.NET Framework, ASP.NET Core MVC, Sci Kit learn, NumPy, Entity Framework, Pandas, PySpark
Tools / Platforms:	Git, SQL Server 2019, Power BI, SSIS, Dimensional Modelling, MS Azure, MS Fabric
Databases:	SQL Server 2019, MongoDB, Apache HBase, Postgres, SAP SQL Anywhere

## PROJECTS / OPEN-SOURCE

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### **Kotlin\_Notes | Link**

*Kotlin*

This is a simple note taking app programmed in Kotlin as one of my practical assignments in Mobile Development module. It uses Room DB in the backend and Jetpack compose in the front end.

### **Exam\_MovieDB | Link**

*Kotlin*

This project was exam for mobile programming. It is a movie database, similar to the popular IMDb site, it uses retrofit and ROOM Db in the backend and uses Jetpack Compose for the Frontend in Kotlin.

### **Comments\_classifier | Link**

*Jupyter Notebook*

Abuse detection is the task of identifying abusive behaviours, such as hate speech, offensive language, sexism and racism, in utterances from social media platforms (Source: <https://arxiv.org/abs/1802.00385>). This assignment investigates this complex problem, and you will be tasked to classify online comments into toxic or non-toxic text. This was assignment 2 for my Business Intelligence module in my Honours. I hope you find it interesting.

## CERTIFICATIONS

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- Quantify Your Future Certificate of Completion - **Quantify Your Future**

## HONORS & AWARDS

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- In my matriculation year, I made it to the top 100 Free State matriculants of the class of 2019.
- Top 50 performing students in the North College of UFS in 2021.
- In my year of matriculation in 2019, I was my school's RCL (Representative Council of Learners) president. I had many leadership responsibilities, including PR campaigns for the school in the surrounding community, task management, and delegation to fellow learners.