

# Luyanda Mncube

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## EDUCATION

### UNISA

**BSc CompSci & MATHEMATICS**  
Ongoing | South Africa, JHB

### WETHINKCODE

2019 | Johannesburg CBD, JHB

### NORTHCLIFF HIGH SCHOOL

2011 | Northcliff, JHB  
4 Distinctions, 9 subjects

## CERTIFICATION

MCSA: Database Development  
Certified SAFe @Agilist  
Certified Foundation TEFL

## LINKS

<https://github.com/luyandamncube>  
<https://linkedin.com/in/luyandamncube>

## COURSEWORK

### UNDERGRADUATE

Programming (C++/Qt)  
Theoretical Machines  
Formal Logic  
Algebra  
Linear Calculus

### WETHINKCODE

Unix Tools and Scripting  
C, POSIX  
Algorithms & Game AI  
Signals & IO  
Functional Programming  
Predictive Analysis  
Regression Modelling

## PROGRAMMING

**Big Data/Hadoop ecosystem:**

• Apache NiFi • Jolt

**Databases:**

MS Azure • CosmosDB

**Languages:**

C • C++ • C# • TSQL

**Scripting:**

Python • Linux shell scripts

**Technologies:**

Ansible • Docker

## PERSONAL SUMMARY

I am a Professional Software Engineer with 2 years of industry experience including around 1 years of experience in Big Data technologies. I currently work as a Data Engineer at Dimension Data, as part of the Race Center Team. The team is responsible for delivering real-time analytics, data warehousing, monitoring and support to NTT, the official technology partner of The Tour De France.

I am also a student, completing my Bsc Computer Science & Mathematics degree part-time with UNISA, with which I intend to complete in 2022. In addition, I attended We-ThinkCode: a school based on **École 42** (the non-profit computer programming school based in Paris). All my work and project can be viewed on my personal github.

## EXPERIENCE

### DIMENSION DATA IW | DATA ENGINEER

Feb. 2020 - Present | Bryanston, JHB

- Worked extensively within Apache NiFi ecosystem to capture real-time and near-real-time data streaming from various sources.
- Worked with different file formats like Json, AVRO, Jolt and compression techniques like gzip.
- Developed maintainable, efficient batch/stream analytics features in SQL, Apache NiFi, and Python.
- Provided live race-day support & troubleshooting data streams for various live races including but not limited to UCI World Tour (Tour De France & Paris-Roubaix) and UCI esports (Zwift)

### BRITEHOUSE | SOFTWARE DEVELOPMENT INTERN

Feb 2019 – Jan 2020 | Bryanston, JHB

- 1-year intensive program aimed at grooming industry-leading talent. This mandated us with developing the "2020 Graduate Program", shaping the future of the program and it's goals whilst focusing on learning & development through project-based work.
- Developed Britehouse Automated Onboarding presentation layer using ReactJS. Validation using Formik
- Developed 4IOTAnalytics Retail Analytics POC for customer counting and footfall insights based on data integration points.
- Developed 4IOTAnalytics Retail Analytics admin portal presentation layer using Razor, HTML, CSS.

## KEY SKILLS & COMPETENCIES

- Ingest data from real-time sources to NiFi and perform ETL operations on it.
- Improving data quality, reliability & efficiency of the individual components & the complete system.
- Knowledge of Software Engineering best practices with experience in implementing CI/CD, logging in production environments.
- Strong communication skills, including ability to convey analytics insights effectively to both IT and business audiences.