



Nicholas Markram

Data Scientist | Dimension Data

Industrial and Systems
Engineering

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Profile

I have a passion for all things data, from ingestion through to insight. My aim is to bring something new to the world of data, combining traditional methodologies with modern tools such as cloud platforms. As well as my technical acumen, I have also developed personable skills such as leadership and team work throughout my time coaching and running a successful sports club during my studies.

Bachelor's in Industrial & Systems Engineering (University of Pretoria - 2020).

- Dissertation: 'Business Process Reengineering in HR Management' (Britehouse)
- Finished with Distinction & Golden Key

National Senior Certificate (King Edward VII School - 2015).

- 4 Distinctions
- Full academic and sporting scholarship
- Academic and sporting full honors, school captain (Water polo)
- School prefect and deputy chair school governing body

Education

Skills

Data Science and Analytics | **Rapid Analytics** | Systems Engineering | **DevOps and Scaled Agile** | Solutions Development | **Industrial Analysis**

Machine Learning | Business Engineering | **Data on Azure** | AWS for Developers | **R for Data Science** | Professional Visualization

Python | **Apache** | PowerBI and Microsoft Suite | **UiPath for Automation** | Python for Automation | **Mendix low-code Development**

Leadership | Professional Communication | **Creative** | Research and Report Writing | **Public Speaking** | Operations Research

Experience

Data Scientist - Dimension Data (June 2022 - Present)

I am responsible for the development of multiple solutions within our team's core analytics capability. I mainly work on the Race Centre team, an advanced analytics team centered around providing real-time analytics using IOT data to the Tour de France, among other cycling races. We work closely with our parent company NTT, a world leading technology and communications company. In addition to Race Centre, I am responsible for rapid development of a number of proof-of-concept machine learning solutions to assist in client and pre-sales engagements with various clients. Some of my key roles:

- Development of a rapid-analytics solutions built using Python and Apache for new clients/use cases.
- Ingestion, processing and streaming of IOT and other continuous data using platforms such as Apache Nifi, Apache Beam (python) and making use of Microsoft Azure suite of tools.
- Development of various solutions from POC stage up until production in various areas including forecasting, anomaly detection, computer vision and retail/business analytics.
- Management of a graduate intern group, who are completing projects within our space.

Contact: References provided on request

Associate Data Scientist - Dimension Data (Jan 2022 - May 2022)

Responsible for the investigation, architecture and development of projects in advanced analytics within the Data and Analytics team in Dimension Data. Going forward in this role, I aim to continue to develop intelligent solutions using my increasing aptitude for data science, cloud platforms, data architecture and design.

Experience

GAP Graduate - Dimension Data (Feb 2021- Jan 2022)

As a GAP graduate, we rotated throughout business, completing various projects. Some notable projects include:

- Part of a data Science and Computer Vision team for Connected Conservation. Creating a smart recognition system using satellite imagery, python development and Azure Cloud Services.
- Developed a data ingestion and analytics solution on Amazon Web Service for a customer analytics product focused around call center analytics
- Participated in large group projects in various divisions - talent management, employment equity, Digital Advisory & services division practicing agile collaboration methodology and experience in a DevOps environment

Contact: *References provided on request*

Co-owner and founder (Pretoria Junior Water Polo Club - 2016-2020)

- I was the co-founder and owner of the Pretoria Junior Water polo Club. We started it in 2016 with just a few junior players but have since developed the club into having over 100 registered players.
- I ran the club, from the administration side including payments, invoicing and all other business matters. I am also in charge of coaching, hiring and team management.
- I have personally used the club as a platform to test my skills in a real world environment such as developing a full stack accounting and team management software using low-code development.

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I consider myself a technologist, with an adaptive mind and a passion for all things data. I find myself to acquire new skills extremely quickly, especially during practical learning. In the past year, I have gained a huge appreciation for rapid and real-time analytics, cloud services and serverless computing.

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Internship Student - Britehouse (Dimension Data)

June 2019 - July 2019, January 2020 - November 2020

- Completed an Internship and then my final year dissertation at Britehouse.
- Internship and dissertation were focused on system & process optimization as well as digital transformation

Contact: Maryke Meintjes (maryke.meintjes@dimensiondata.com)

Internship Student (Spraynozzle - July 2019)

Completed a two week internship at Spray Nozzle. They supply, source and manufacture various nozzle solutions for both agriculture and industrial use.

- I was responsible for finding efficient ways in dealing with massive tender documents and used Microsoft VBA code to extract certain data from these files and automatically populate various templates.
- I also gained practical exposure to various inventory management and order fulfilment systems.

Contact: Rainer Scherzinger (MD of Spraynozzle) - rainer@spraynozzle.co.za

Certificates & Course

- Python for Data Science, R for Data Science,
- Scaled Agile Framework (SAFe) 5.0 certified
- Completed various courses on cloud platforms (Azure and AWS)
- Robotic Process Automation (UiPath Level 1)
- Low-code development and DevOps*
- IT Service Management (ITIL Framework*)
- PowerBI for analytics
- SAP Introduction (2018)