

# VUKOSI HECTOR MATHONSI



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[hectorvee.github.io/my-portfolio](https://hectorvee.github.io/my-portfolio)



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## SUMMARY

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Dedicated BSc Mathematical Science student specializing in Mathematical Statistics and Computer Science at the University of Johannesburg. Skilled in data analysis, programming, and statistical modeling, with a passion for Data Science, Machine Learning, and Artificial Intelligence. Proficient in R, SQL, and Python, with a strong foundation in problem-solving and delivering data-driven insights.

## EDUCATION

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### University of Johannesburg

BSc Mathematical Science in Mathematical Statistics and Computer Science

2021 – Present

- Pursuing a Bachelor's Degree in Mathematical Science with a focus on Mathematical Statistics and Computer Science.
- Engaged in coursework covering Calculus, Linear Algebra, Statistics, and Computer Science.
- Developing skills in data science, machine learning, software engineering, and statistical analysis.

### WeThinkCode\_

Computer Software Engineering

2021 – 2022

- Completed 1st year coursework in programming fundamentals, object-oriented programming, and software engineering.
- Gained hands-on experience with Python and Java, including knowledge of OAuth, REST APIs, unit testing, and configuration files.
- Worked on group projects involving client-server architecture, network programming, and multi-user systems.
- Developed skills in team collaboration, agile methodologies, and presentation.

### Tembisa Secondary School

Bachelor's Pass, Science Stream

2016 – 2020

## EXPERIENCE

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### **Quantitative Analysis – FirstRand Summer School**

**FirstRand · Seasonal**

**Dec 2024 · City of Johannesburg, Gauteng, South Africa · On-site**

- Participated in the FirstRand Summer School (Quants Group), where I worked collaboratively on a real-world Fraud Detection Project addressing Mule Fraud in the banking sector.
- Conducted exploratory data analysis (EDA), model testing, and research using transactional data to develop a Classification Tree Model for fraud detection.
- Collaborated with a multidisciplinary team from backgrounds in Actuarial Science, Statistics, Mathematics, and Computer Science to solve complex problems.
- Gained hands-on experience with quantitative analysis and insights into financial services, enhancing problem-solving and teamwork skills.
- Delivered project results to senior leaders, showcasing the solution's application to detect fraud in real time.

## CERTIFICATIONS

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### **Accenture North America Data Analytics and Visualization Job Simulation on**

**Forage – October 2024**

- Completed a simulation focused on advising a hypothetical social media client as a Data Analyst at Accenture
- Cleaned, modelled and analyzed 7 datasets to uncover insights into content trends to inform strategic decisions
- Prepared a PowerPoint deck and video presentation to communicate key insights for the client and internal stakeholders

### **Problem Solving (Intermediate)**

HackerRank

Issued Mar 2022

### **Data Structures and Algorithms in Python**

Jovian

Issued Apr 2022

### **Scientific Computing with Python**

freeCodeCamp

Issued Dec 2021

### **Ultimate Java Course**

Code With Mosh

Issued Aug 2024

## SKILLS

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- Data Analysis and Visualization
- Statistical Modeling
- Network Programming
- Programming (Java, C++, R, Python)
- Web Development (HTML, CSS, JavaScript)