👆 Henri Branken

🏠 Potchefstroom (2531)   📞 082 785 5983   ✉ henri.branken777@gmail.com

🐙 GitHub Profile   in LinkedIn Profile

Overview

I hold a Master's Degree in Space Physics (Cum Laude) and have a strong background in mathematical analysis, modeling, and problem-solving. I transitioned into Data Science and Full-Stack Web Development through professional experience and extensive online learning. My skills include Python, SQL, MERN Stack, Power BI, and data science methodologies.

Languages

- Afrikaans: Mother Tongue

- English: Fluent, Level 5 TEFL Certification

Education and Training

2023/01–2023/09	• **HyperionDev Full Stack Web & Software Engineer Bootcamp** • HyperionDev is accredited with the **MICT Seta** (ACC/2017/05/0005). This course bears **30 Credits**, aligned to an **NQF Level 5 Qualification**. • Please click on this **link** to view my entire HyperionDev Profile • I received a **"Student of the Month" Award** for my commitment to excellence and continuous improvement • Expand the **"January 2023 – September 2023"** section of this **link** to view some Git Repos I created during this course
2022/08–2022/12	• **Qualify Level 5 Diploma in Teaching English as a Foreign Language (The TEFL Academy)** • Classroom TEFL Course Certificate (20 Hours) • TEFL, Teaching Business English (30 Hours) • The completion of my own Japanese Language Studies book, which took 4+ years. Without a doubt, this is the project I'm most proud of!
2019–2022/07	**Data Scientist at Matogen Applied Insights**
2018	• Completed Online Courses at **Udemy** and **DataCamp** with a strong focus on **Python Data Science, Machine Learning, and Linux Essentials**. • Attended **PyConZA 2018** in Johannesburg.
2017	• Internship at the **Centre for Space Research, Potchefstroom** • Completed the **'Data Science with Python' Track** on DataCamp (Certificate Number #13,897) • Completed the 2017 **Advent of Code** challenges. My Python solutions may be viewed in this repo
2014–2016	**Master of Science in Space Physics, North-West University, Potchefstroom** DISSERTATION: *Weighing dark matter in brightest cluster galaxies* SUPERVISOR: Prof. Ilani Loubser AVG. SCORE: 85%, *Cum Laude* Awarded as the top achiever on Master's level in the Centre for Space Research (for the year 2016).
2013	**Honours Bachelor of Science in Physics, North-West University, Potchefstroom** AVG. SCORE: 92%, *Cum Laude* Awarded as the top achiever in Honours in Physics
2010–2012	**Bachelor of Science in Physical and Chemical Sciences, North-West University, Potchefstroom** Majored in **Physics and Applied Mathematics** 3RD YEAR AVG. SCORE: 95%, *Cum Laude* • Awarded as the top achiever in the 1st, 2nd, and 3rd years of the Physics curriculum • Awarded as the top student in the Faculty of Natural Sciences for the 1st and 3rd years of study • Supplemental Instruction Leader for the 2011 Term in Mathematics (1st year level)
2009	**Matriculated with 8 distinctions from St. Andrew's Private School, Welkom** **Avg. Score:** 89%, *With Distinction*

- **HyperionDev Full-Stack Web Development Bootcamp** (2023)
  Awarded "Student of the Month"; Developed multiple projects covering HTML, CSS, JavaScript, React, and backend integration.

- **Master of Science in Space Physics** (2014–2016)
  North-West University, Potchefstroom. Dissertation: *Weighing dark matter in brightest cluster galaxies.*

- **Honours Bachelor of Science in Physics** (2013)
  North-West University, Potchefstroom. Awarded as top achiever in Honours.

Work Experience

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- **Data Scientist at Matogen Applied Insights** (2019–2022)
  - Developed a Portfolio Performance Monitor and IFRS 9 Credit Loss Model.
  - Built Power BI dashboards for agricultural and financial data monitoring.
  - Created Python algorithms for optimizing water irrigation schedules.

- **Internship at Centre for Space Research** (2017)
  - Conducted research on astrophysical data modeling.

Technical Skills

- **Programming:** Python, JavaScript, SQL, Java, PHP, Bash

- **Data Science:** Pandas, NumPy, SciPy, PySpark, Data Wrangling, EDA

- **Web Development:** MERN Stack, jQuery, REST APIs, Full-Stack Integration

- **Tools:** Git, GitHub, Linux, Power BI, Tableau, Jupyter Notebooks

Academic Record

DataCamp Data Science with Python Track Certificate #13,897
Master's Degree (2014–2016): Avg. 85% — Acadmic Transcript
Honours Degree (2013): Avg. 92%
BSc in Physical and Chemical Sciences (2010–2012): Avg. 95%

References

- Prof. Christo Venter, North-West University Christo.Venter@nwu.ac.za

- Mr. Jacobus Eksteen, CEO, Matogen Applied Insights jacobus.eksteen@ai.matogen.com