Janco van Niekerk

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Driving Licence • Own Car

Personal statement

I am a mechanical engineering graduate from the University of Pretoria currently working as a Software Developer.
I am a Big Data Enthusiast and I am continuously expanding my knowledge regarding data and analytics by reading, studying and doing my own data science projects.
My eventual career goal is to oversee end-to-end data projects, build predictive models and communicate data-driven insights in a captivating, simple and concise manner.

Software

Software that I am familiar with includes:

- SQL (proficient)
- Python 2.7 (proficient)
- NumPy (proficient)
- Pandas (proficient)
- Power BI (proficient)
- Matplotlib (proficient)
- Microsoft Office (proficient)
- Scikit-learn (beginner)
- Keras (beginner)
- R (currently learning)

Education

University of Pretoria

B.Eng. (Mechanical Engineering)

Key Skills gained:

- Analytical and conceptual thinking, with a conscientious approach to managing workloads.
- Ability to handle, analyse and interpret complex data obtained from experiments on physical systems.
- Ability to perform and identify the need for feature engineering when extracting insights from data.
- Advanced problem solving and numeracy skills.
- Accomplished communication skills, both written and verbal, developed through numerous assignments and presentations.
- Proficiency in all areas of Microsoft Office, including Excel, Word and PowerPoint.
- Knowledge of statistical concepts and the ability to apply these concepts to gather insight from data.
- Writing code which integrates with datasets.
- An assortment of calculus modules and knowledge of linear algebra serves as a foundation for understanding various concepts in the field of deep learning.

Hoër Volkskool Heidelberg

- English First Additional Language-79%
- Afrikaans Home Language-82%
- Physical Science-94%
- Life Orientation-80%
- Business Studies-83%
- Engineering Graphics and Design-67%
- Mathematics-79%

Work Experience

Software Developer, Dupletech. Johannesburg

(January 2019 –Current)

- Database design and implementation (SQL and NoSQL).
- Design and development of backend API's and processes (Javascript)
- Creating/managing cloud server instances (Amazon EC2)

Data Analyst, Drivatic. Pretoria

(July 2018 –December 2018)

Key Responsibilities:

- Developing analytic dashboards for clients using Power BI.
- Data Cleaning and Wrangling in Excel, Power BI and Python.
- Built a model to predict diamond recovery in a mine based on plant specifications.
- Managing SaaS projects and communicating with clients.
- Developed a dashboard to analyse sentiment scores for phrases on social media using NLTK.

Mechanical Engineering Student, SENET. Edenvale

(February 2017 – March 2017)

Key results:

- Developed an Excel program using calculus and first principle, to calculate the stress-and fatigue-distribution in a shaft of a newly proposed piece of equipment.

Mechanical Engineering Student, Dymot Engineering. Isando

(December 2013 – January 2014)

Key results:

- Performing the theoretical calculations and designed a modified turnkey winch.

Mechanical Engineering Student, AR-Controls. Vanderbijlpark

(December 2015 – January 2016)

Key results:

- Performing Finite Element Analysis on an existing and proposed component design.
- Delivering a PowerPoint presentation on my findings to all the directors and engineers of the company.

Interests

I am an avid student of analytical philosophy with an obsession for finding the best way of gaining knowledge about the world around us. I am inspired by mathematicians and philosophers such as Gottlob Frege, Alfred Tarski, W.V.O. Quine, Ludwig Wittgenstein, Karl Popper and Alan Turing.

My biggest intellectual interest is the intersection of logic and language with the Philosophy of Science – I believe that once this intersection is properly understood and studied we may be able to automate the entire scientific process. I also believe that data science will provide the needed push for this undertaking to truly materialize.

References

References are available on request.