Ben Pietersen

DATA ANALYST,
DEVELOPER, ENGINEER

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Pretoria, South Africa

https://github.com/OomBen

GENERAL INFORMATION

Born:	12 January 1998
Sex:	Male
Languages:	Afrikaans, English
Occuption:	Student
Nationality:	South African
Disabilities:	None
Marital Status:	Unmarried
Licenses:	Code A, Code B, ARA L2
Personality Type:	INTJ-A

There is little I can say about skills, education and work experience which is not already listed below, so I will use this space to talk about me as a person instead.

I am currently studying BSc. Information and Knowledge Systems (a Computer Science fork) and set to graduate this year. This is after majoring in Statistics and Business Management as part of a former BCom Economics degree at U.P. I have taken several additional modules over the course of my university journey and do a lot of external research into topics which interest me.

My upbringing was partially on a farm and partially in the city, this has left me with a relatively wide set of hands-on skills including electronics and mechanics. I am fascinated by too many things to list, but the top ranking of them are automation (both in software and robotics), space based technologies and statistics. While I enjoy working on cars, motorbikes and other machines, I greatly appreciate reliability and craftsmanship and try to encompass this in my engineering designs and in my code.

As a naturally optimistic, open-minded and multilingual person, I get along well with all people whom I come across, regardless of nationality or background. I especially appreciate the values of authenticity, responsibility and straightforwardness when dealing with people.

I play several music instruments, enjoy reading, have a passion for the idea of space based manufacturing and keep myself in top physical condition through swimming, cycling and squash. I would be happy to accomodate a call if you wish to know more.

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EDUCATION

University of Pretoria
BSc. Information and
Knowledge Systems
(Triple major with Statistics &
Business Management).
Class of 2022

INDUSTRY EXPERIENCE

Data Analyst | 2019-2020

H&M Information Management Services – Rosebank, Johannesburg

This involved regression modelling, categorical data analysis and other techniques to determine trends and patterns for international clients. I did both client consultation as well as full end to end data science solutions including building custom web scraping and document extraction tools.
Ref: Eddie Harvey | eharvey@docwize.com | +27 83 259 0542 |
https://www.docwize.com/

PART TIME AND TEMPORARY WORK

Lab Technician | 2018

Design Biologix – CSIR, Pretoria
This involved preparing Bovine Papiloma Virus (BPV) samples in a sterile environment to develop specialized vaccines for the agriculture industry.
Ref: Karen Nel | karen@designbio.co.za | +27 83 225 9350
https://designbio.co.za/

Lab Based Field Work | 2017

Patho Solutions – Wellington, Western Cape
This involved processing, testing and GPS mapping maize samples collected for Mosaic and Maize Streak Virus.
Ref: Gert Pietersen | gert@pathsol.co.za | +27 72 900 0380
https://www.pathsol.co.za/

APPLICATION SUITES

Statistical Modelling with SAS.
Geo-analysis with ENVI & SNAP.
3D modelling & Design with
Autodesk Fusion 360.
Microcontrollers with GCode for
Arduino.

PROGRAMMING LANGUAGES

LAMP Stack (3+ years)
C/C++ (3+ years)
Python (3 years)
T-SQL/MySQL (2 years)
Java (2 years)
Typescript/Javascript (1 year)

Languages with less than 1 year of programming experience:
HTML & CSS
Assembly (YASM | x86_64)

SKILLS OVERVIEW

Skill	Rating
Android App Development	★★★☆☆
Software Design	★★★★☆
3D Modelling / CAD	★★★★☆
Arduino	★★★★☆
Regression Modelling	★★★★★
Categorical Data Analysis	★★★★★
Time Series Analysis	★★★★☆
Machine Learning & A.I	★★★☆☆
Mechanics	★★★★★
Satellite Image Analysis	★★★★★
Reporting & Presentation	★★★★☆
Operating Systems	★★★★★
Lab & Clean Room Skills	★★★★☆
Research	★★★★★
Web Scraping & Extraction	★★★★★
Languages: English	★★★★★
Languages: Afrikaans	★★★★★

PUBLICATIONS

Ben Pietersen, Ryan Davidson "Polarimetric Classification and Decomposition of Synthetic Aperture RADAR Data using SNAP" Published in International Journal of Trend in Research and Development (IJTRD), ISSN: 2394-9333, Volume-9 | Issue-3 , June 2022, URL: http://www.ijtrd.com/papers/IJTRD25207.pdf