Werner Bisschoff

Computer and Electronic Engineering Graduate

▬▬▬ ## Profile

Personal   I am a quiet, yet serious person that is dependable and persevering. I continuously strive for improvement and efficiency. I am a critical thinker and a problem solver. My hobbies include photography, playing the ukulele, and casual online gaming

Career   My goal is to work in a software development position and to constantly improve myself and my workflow. I am a fast learner and always willing to adapt, learn and improve. I aim to deliver thorough, detailed work with patience and determination. I believe in good communication and mutual respect in the workplace.

▬▬▬ ## Education

Feb 2015 – Dec 2019   **B.Eng. Computer and Electronic Engineering**, *North-West University*, Potchefstroom, *66%*.
- Learned how to work in multi-disciplinary teams
- Learned how to manage deadlines and multitudes of workloads
- Learned when to just be satisfied with *good enough* while still trying to improve
- Learned how to put together a concise and pleasing report using LaTeX
- Utilised object oriented programming to create a tower defense game using Qt C++, including pathfinding and network communication
- Performed data analysis on large spreadsheets by use of Python, Julia and Jupyter Notebook
- Worked on an Android app to communicate between two devices using NFC and encryption
- Learned about embedded systems, I/O and interrupts using an ARM microcontroller
- Implemented a PID controller with an Arduino to control a DC motor
- Used PHP, HTML, MySQL and Bootstrap to create a simple education website

Jan 2010 – Dec 2014   **National Senior Certificate**, *Hoërskool Wesvalia*, Klerksdorp, *86%*.
Graduated in the top 10 of the class with six distinctions.

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Feb 2020 – Jul 2020   **Junior Lecturer**, *North-West University*, Potchefstroom.
- Lecturer for Introduction to Programming with Python
- Learn to work with and teach to programming newcomers with various backgrounds
- Wrote a Python script, utilising *Moss* and *mosspy* to check for similarities between student submissions

Nov 2018 – Dec 2018	**Software Engineering Intern**, *Jurumani Solutions*, Midrand.
	○ Worked on a cloud-based service using Python, Flask, MySQL and AWS S3 to be able to easily and remotely send a print job to a network-connected printer
	○ Worked on a solution, using Python and a virtual environment, to extract data from multiple types of invoices and to store or send the data in JSON arrays
Jun 2018 – Jul 2018	**Software Engineering Intern**, *Nanoteq*, Centurion.
	○ Gained experience with encryption, decryption and hashing
	○ Worked on a cryptography software using C++ Builder
	○ Added functionality to and fixed bugs within existing code
	○ Improved upon GUI to make it more user friendly and visually pleasing

Computing and Other Skills

Programming	○ Algorithm and logic implementation with Python and C++
	○ Solving of optimization problems and signal manipulation with Matlab
	○ Signal and image manipulation with Python
	○ Android development with Android Studio, Java and Kotlin
	○ MySQL database design and development
	○ Web design with HTML and PHP
	○ Data Analysis with Julia and Python
	○ PID Controller implementation with Arduino
Applications	○ Creation of professional reports with LATEX
	○ Android development with Android Studio
	○ General programming with Visual Studio Code
	○ Desktop and development use of various Linux distributions
	○ Compiling from source code
	○ Hobbyist use of Darktable, GIMP and other photo manipulation software
Other	Current clean driving license

Languages

Afrikaans	Fluent	*Home Language*
English	Fluent	*Language of Tertiary Education*

Contact Details

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