Werner Bisschoff

Computer and Electronic Engineering Student

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 guitar and ukulele, some online gaming.

Career — My goal to work in software development position and to constantly improve myself and my workflow. I do not have much previous work experience but I am quick and willing to adapt, learn and improve. I aim to deliver thorough, detailed work with patience and determination.

Education

Feb 2015 – Dec 2019 — **B.Eng. Computer and Electronic Engineering**, *North-West University*, Potchefstroom, *66%*.
- Learned how to work well 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 report that looks good 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.
- Used an Arduino to implement a PID controller.
- Created a web site similar to that of *Sakai*, where multiple users could be created and assignments could be tracked and uploaded, using PHP, HTML, MySQL and Bootstrap. Hashing was used to securely store and compare passwords.

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

Experience

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 older 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
	○ Use of Microsoft Office or Libreoffice
	○ 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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