

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%.
- Dec 2014 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 – **Software Engineering Intern**, *Nanoteq*, Centurion.

- Jul 2018
 - o Gained experience with encryption, decryption and hashing.
 - o Worked on a cryptography software using C++ Builder.
 - o Added functionality to and fixed bugs within older code.
 - o Improved upon GUI to make it more user friendly and visually pleasing.

Computing and Other Skills

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

Languages

Afrikaans **Fluent**

English **Fluent**

Home Language

Language of Tertiary Education

Contact Details

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