

Werner Bisschoff

Computer and Electronic Engineering Student



Profile

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| 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

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| Feb 2015 – Dec 2019 | B.Eng. Computer and Electronic Engineering, North-West University, Potchefstroom, 66%. <ul style="list-style-type: none">○ 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 <i>good enough</i> while still trying to improve○ Learned how to put together a concise report that looks good using L^AT_EX○ 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 <i>Sakai</i>, 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

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| Nov 2018 – Dec 2018 | Software Engineering Intern, Jurumani Solutions, Midrand. <ul style="list-style-type: none">○ 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. |
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Jun 2018 – **Software Engineering Intern**, Nanoteq, Centurion.

- Jul 2018
 - 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

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| Programming | <ul style="list-style-type: none">○ 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 | <ul style="list-style-type: none">○ Creation of professional reports with L^AT_EX○ 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

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| Afrikaans | Fluent | <i>Home Language</i> |
| English | Fluent | <i>Language of Tertiary Education</i> |

Contact Details

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