

# Werner Bisschoff

*Computer and Electronic Engineering Graduate*



## Profile

Dependable and persevering, I continuously strive for improvement and efficiency with thorough and dedicated work. My goal is to work in a software development or data science position, building challenging and complex projects, and to improve my technical and team skills.

## Education

Mar 2020 **B.Eng. Computer and Electronic Engineering**, *North-West University*, Potchefstroom.

- o Final year project included an *Android* application to emulate an NFC payment system based on the ISO 14443 protocol
- o Used *L<sup>A</sup>T<sub>E</sub>X* to compile effective, consistent reports
- o Utilised object oriented programming to create a tower defense game using *Qt C++*, including pathfinding and network communication
- o Performed data analysis on large spreadsheets by use of *Python*, *Julia* and *Jupyter* notebook
- o Implemented a PID controller with an *Arduino* to control a DC motor

## Experience

Nov 2020 – **Freelance Full Stack Developer**, *Expandise*, Remote.

- Dec 2020
- o Created a full stack content management system
  - o Created a REST API with *Python*, *Django* and *Django Rest Framework*
  - o Created an intuitive front end user interface using *CSS*, *HTML*, *TailwindCSS*, *JavaScript* and *ReactJS*
  - o Utilised *Visual Studio Code*, *Parcel.js* and *SSH*

Feb 2020 – **Junior Lecturer**, *North-West University*, Potchefstroom.

- Dec 2020
- o Lecturer for *Introduction to Programming* with *Python* and *C++*
  - o Learned to work with and teach to programming newcomers with various backgrounds

Nov 2018 – **Software Engineer**, *Jurumani Solutions*, Midrand.

- Dec 2018
- o Worked on a solution using *Python* to extract data from multiple types of invoices
  - o 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

Jun 2018 – **Software Engineer**, *Nanoteq*, Centurion.

- Jul 2018
- o Added extra functionality to existing cryptography testing software built with *C++ Builder*

## Contact

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