

Werner Bisschoff

SOFTWARE ENGINEER

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Summary

Versatile Computer and Electronic Engineering graduate who is passionate about software technologies. Interested in building exciting and challenging products effectively and efficiently. Always willing to learn new technologies and to adapt to unfamiliar situations.

Education

North-West University

Potchefstroom

B.ENG. IN COMPUTER AND ELECTRONIC ENGINEERING

Dec. 2019

- Final year project included the development of an *Android* application to emulate an NFC payment system based on the ISO 14443 protocol, the architecting of the communication protocol, and the design of an algorithm to send and receive encoded data
- Utilised object oriented programming to create a tower defence game using *Qt C++*, including pathfinding and network communication with the TCP/IP protocol
- Analysed data from large spreadsheets by use of *Python*, *Pandas*, and *Jupyter* notebook, including multi-processing, data cleaning, linear regression, correlation and basic implementation of machine learning with *Sklearn*
- Developed microcontroller logic with C and the STM32 system
- Implemented a PID controller with an *Arduino* to control a DC motor's voltage and speed
- Compiled effective, consistent reports with \LaTeX

Skills

Back-end Django, Django Rest Framework, REST API

Front-end React, JavaScript, HTML5, CSS, TailwindCSS

Programming Python, Julia, Jupyter Notebook, C, C++, Borland C++ Builder, Version Control

Platforms WSL, Linux, Windows, Docker

Languages English, Afrikaans

Experience

UMAN Technologies

Milnerton, Cape Town

SOFTWARE DEVELOPER

Mar 2021 - Present

- Working on automotive ethernet programming with C++
- Unit and integration tests with C++ and *Python*
- *Docker* containers for development
- Technical documentation
- System programming with bash scripting
- *SQL* Database design
- Implementing and testing new client services based on the *SOME/IP* protocol
- Using *AGILE* development practices

Expandrand

Remote

FREELANCE FULL STACK DEVELOPER

Nov 2020 – Dec 2020

- Architected a full stack content management system to allow viewing and editing of client information and status
- Developed a REST API with *Python*, *Django* and *Django Rest Framework*
- Developed an intuitive front end user interface using *CSS*, *HTML*, *TailwindCSS*, *JavaScript* and *ReactJS*
- Utilised *Visual Studio Code*, *Parcel.js* and *SSH*

North-West University

Potchefstroom

JUNIOR LECTURER

Feb 2020 – Dec 2020

- Lecturer for *Introduction to Programming* for first year IT students
- Taught basic *Python* and C++ programming to newcomers with various backgrounds
- Created tutorial videos and content slides
- Managed student information and marks
- Collaborated with co-lecturers and tutors to adapt to remote learning