Avenue Francois Besson 19, c/o Liv Petek, Meyrin, Geneva, 1217, Switzerland

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"Every living being is an engine geared to the wheelwork of the universe. Though seemingly affected only by its immediate surrounding, the sphere of external influence extends to infinite distance."

Education

University of Johannesburg

Johannesburg, South Africa

NATIONAL DIPLOMA IN MECHANICAL ENGINEERING

Feb. 2012 - Nov. 2012

• Did a Mechanical Engineering Diploma for one year due to space constraints on the Bachelor of Engineering Degree program

University of Johannesburg

Johannesburg, South Africa

Feb. 2013 - Nov. 2018

BACHELOR'S DEGREE WITH HONOURS IN MECHANICAL ENGINEERING

- Design Project: Design of a water filter for use in the Desalination Process
- Research Project: Computer simulation of Diamond as a resilient material in a high radiation environment

University of Johannesburg

Johannesburg, South Africa

Jul. 2019 - Nov. 2020

MASTER OF ENGINEERING (MENG) DEGREE IN MECHANICAL ENGINEERING

· MEng Thesis: Anomaly Detection in High Throughput Network Systems (Applications of AI to Engineering)

Skills

SolidWorks, ANSYS, Wolfram System Modeller, AutoCAD, Star CCM+, LAMMPS, Matlab, Mathematica, **Engineering Software**

Material Studio, ReaxFF, VMD, Geant4

Data Science & Machine Learning Scikit-Learn, Python-Pandas, Seaborn, Matplotlib, Keras, OpenCV, Tensorflow

Programming Python, C, C++, Matlab, Mathematica, LaTeX

Languages English, Ndebele, Shona, Zulu

Analysis Tools Root, SRIM, Selenium, AIDA64

Work Experience __

European Organisation for Nuclear Research (CERN)

Geneva, Switzerland

Feb. 2019 - Jan. 2020

- PROJECT ASSOCIATE WITH THE ATLAS TDAQ NETWORK ADMINISTRATION TEAM
- Decommissioning of the old ATLAS Data Acquisition Network • Installation and commissioning of the new ATLAS Data Acquisition Network
- Integration of the new network with Data Acquisition specific applications
- · Development of tools for efficient monitoring of the high throughput network in real-time

RC Physics Group / University of Johannesburg

Johannesburg, South Africa

Mar. 2018 - Present

RESEARCH ASSISTANT

- Developing a web scraping API
- Developing a gender/ethnicity classifier employing Convolutional Neural Networks
- Developing an API for data analysis and augmentation
- Giving tutorials on Python, Data Science, Machine Learning and Deep Learning
- Supervising an AIMS Student's project in Machine Learning/Deep Learning

Honors & Awards

INTERNATIONAL

Apr. 2014 Best First Year Student for Physical Sciences in Chemistry 2013, Physical Sciences Prestige Evening

University of Johannesburg, South Africa

DOMESTIC

Sept 2011 Best Lower Six Sciences Student 2010, Prize Giving Day

Best A'level Sciences Student 2011, Prize Giving Day

Gloag High School, Zimbabwe Gloag High School, Zimbabwe Gloag High School, Zimbabwe

Apr. 2019 - Present

Online Courses

Udemy Online Education Nov. 2018 - Present

STUDENT

- Complete Python Bootcamp: Go from zero to hero by Jose Portilla
- Python for Data Science and Machine Learning by Jose Portilla
- Complete Guide to Tensorflow for Deep Learning with Python by Jose Portilla
- Complete Tensorflow 2 and Keras Deep Learning Bootcamp by Jose Portilla
- Python 3: Deep Dive Series by Fred Baptiste
- The Complete Pandas Bootcamp: Master your Data by Alexander Hagmann
- Deep Learning: Advanced Computer Vision by Lazy Programmer

Udacity Online Education

STUDENT

- · C++ Nanodegree
- Data Engineering Nanodegree
- Data Structures and Algorithms
- · Machine Learning Engineer Nanodegree
- Deep Learning Nanodegree
- · Bertelsmann Technology Scholarship: AI Track

References

Professor Simon H Connell

Department of Mechanical Engineering Science University of Johannesburg Johannesburg, 2006

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