



Tshilidzi Mudau

Data scientist & Full Stack Developer

Experience

Address

01/15 - Now **Software Developer/Data Scientist** [Tracker South Africa](#)

- Implement and maintain computer vision systems for analysing driver behaviours (using Deep learning).
- The sole developer responsible for implementing and maintaining C# back-end services for the company's finance team. Over the the period I have been there, I have implemented no less than 5 such back-end services.
- Builds and maintain Python scripts to analyse accelerometer data collected from vehicles.
- Member of the Artificial Intelligence(AI) forum, a team responsible for planning, assessing and implementing AI systems in the company. The team consist of 6 members.

Cell Phone

-

Mail

mudau7t@gmail.com

Nationality

South African

01/16 - Now **Cambridge IGCSE Tutor** [CL Education](#)

- Tutoring computer science to Cambridge IGCSE students.

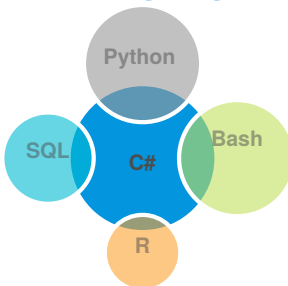
Web

[LinkedIn stack exchange profile](#)

01/15 - 12/15 **Software Developer** [Newsclip Media Monitoring](#)

- I worked as part of a team that developed in-house software for the company. Over the cause of this time period, I also individually developed two systems (a scanning system for automating the scanning of publications and an advert processing system) and worked in several others systems as part of the team. This systems were and are still used on a daily basis by a team of at least 20 people who processed publications. I developed in C# as well as WPF.

Programming Languages

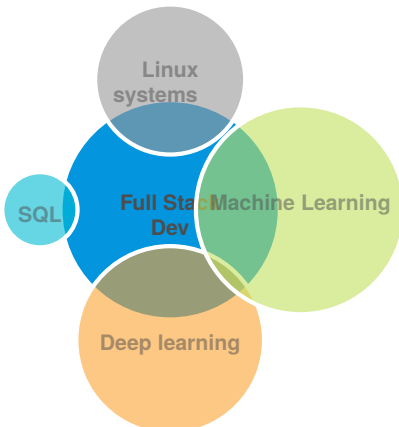


01/12 - 12/14 **Computer Science and Informatics Tutor** [University of Johannesburg](#)

- Assist computer science undergraduate students with their practical assignment. The job involved the marking of student assignment as well as physically assisting students with their projects during the practical programming sessions.

Personal Project

Skills



01/14 - 10/14 **Identikit Generation System** [University of Johannesburg](#)

- Witnesses to crime are often required to give a detailed description of the perpetrator of the crime. Unfortunately, this is a very inefficient procedure. This system creates 3D identikits from the witness's vague mental memory by using genetic algorithms. See screen shot [here](#).

Warehouse Management system

[University of Johannesburg](#)

- A virtual warehouse managed by a swarm of intelligent agents. This system minimizes the time it take to process orders in the warehouse. All this is achieved by using a constraint graph together with neural networks.

Software

Pycharm ★★★★★
Vim ★★★★★
R Studio ★★★★★
Visual-Studio ★★★★★

OS Knowledge

GNU/Linux ★★★★★
Windows ★★★★★
MacOS ★★★★★

Spoken Languages

English ★★★★★
Venda ★★★★★
Zulu ★★★★★
Sotho ★★★★★
Tsonga ★★★★★
Afrikaans ★★★★★
Tswana ★★★★★
Pedi ★★★★★

Education

- 01/12 - Now **MSc., Computer Science** [University of Johannesburg](#)
The objective of this thesis is to investigate and develop a neural network model, through which, neural networks can successfully be trained in the event that it is supplied with either incomplete/missing data. I have devised a new neural network model, through which the neural network can indeed be trained successfully in such an event. The model doesn't involve any additional data pre-processing other than that which the scientist/programmer would normally do. The results of the model are better than most of the other methodologies popularly used.
- 01/14 - 12/14 **BSc Honours Computer Science** [University of Johannesburg](#)
Coursework: Artificial Intelligence, Advanced Artificial Intelligence, Systems Programming, Data Communications, Computer Graphics, Honours Project, Information Security, Legal And Ethics.
- 01/10 - 12/13 **BSc Mathematics And Computer Science** [University of Johannesburg](#)
Coursework: C++ Object Oriented Programming, Java Network Programming, Advanced Data Structures, Operating Systems, Differential Calculus, Advanced Calculus, Linear Algebra, Static And Dynamics, Differential Equations, Discrete Mathematics, Abstract Algebra, Real Analysis, Complex Analysis.
- 2008 **Grade 12** [Noordgesig Secondary School](#)
Coursework: Mathematics, Physical Sciences, Geography, Life Sciences, English, Afrikaans, Life Orientation.

Certifications

See Likendin

<https://www.linkedin.com/in/tshilidzi-mudau/>

References

Tshilidzi Mudau