TIFFANY WOODLEY

Electrical & Electronic Engineer/ Data Scientist

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WHO AM I?

I am a natural problem-solver and strongly believe in Occam's Razor – the simplest explanation is usually the best one. I love using this principle and a bit of creativity to find novel ways to solve complex problems. With a background in electrical and electronic engineering, I have thoroughly enjoyed finding data solutions within the industry and I am eager to apply my range of skills in machine learning across multiple industries.

- Python
- R
- Statistics
- Machine Learning
- Deep Learning
- Reinforcement Learning
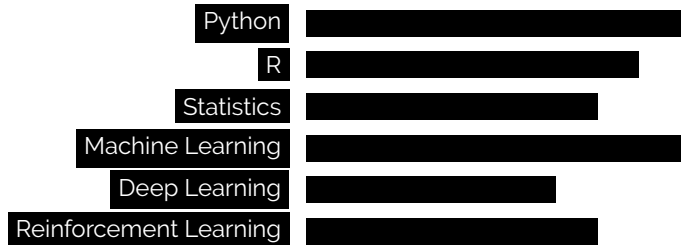
EXPERIENCE

Feb 2022 – Present
full time

Machine Learning Engineer — **Bytefuse.ai**
- Working on traffic light optimisation using reinforcement learning
- Working on different solutions within the energy industry

`Python`

2019 – 2022
part time

Contract Work — **Solink**
- Created software which simulates micro-grid and battery arbitrage systems in order to optimally size systems based on financials

`Python / Excel`

2018 – 2019

Junior Battery Engineer — **SolaFuture Energy**
- Created software which simulates micro-grids systems and analyses them in order to create optimal and detailed proposals
- Interfaced the software to run through Excel, allowing for non-coders to generate proposals
- Created an automatic monitoring system which pulled in data from SQL databases and other APIs, run on a Linux server

`Python / VBA / Linux Server / SQL`

2017

Intern — **Solafuture Energy**

EDUCATION

2020 – 2022

MSc Advanced Analytics — **University of Cape Town**
Stream change to Advanced Analytics to diversify my skillset and develop greater insight into statistics. Courses included: Multivariate Statistics, Advanced Regression, Simulation and Optimisation, Machine Learning. My thesis involved the use of reinforcement learning to solve the practical problem of peak shaving

2019 – 2020

Msc Data Science — **University of Cape Town**
Courses included: Supervised Learning, Unsupervised Learning, Data Science for Industry, Databases, Data Visualisation.

2012 – 2018

BEng Electrical & Electronic Engineering — **Stellenbosch University**

PROJECTS

For a comprehensive guide of my assignments and course work completed in my masters please click here.

HOBBIES

I enjoy being creative, in my spare time you can find me decorating a friend's apartment, DIY'ing a new piece of furniture or attempting to sew something wearable with my entry-level sewing skills.