Dr Thomas **Dickson**

Data Scientist · Software Engineer · Quantitative Researcher

📱 (+44) 07572293486 | ✉ tajdickson@protonmail.com | 🏠 tajd.netlify.app | ⭘ tajd

Summary

I provide data driven software solutions to challenging technical problems. I currently work as a full stack data scientist at Dynamon, providing logistics companies a competitive edge with insights on vehicle performance derived from big data analytics. I develop data systems to extract, transform and load data to deliver insight to customers. I use my data science skill set to solve business problems and identify relevant insights for clients.

Experience

Dynamon   *Science Park, Chilworth*

Full stack Data Scientist   *July 2020 - Present*

I was the 3rd engineering hire at Dynamon, a startup disrupting the logistics industry by using big data to identify insights that provide a competitive advantage.
- Data science investigations into business problems, for example, I quantified a 5% fuel saving as a consequence of using different tyres.
- Development of data system to scale to serve more customers using larger datasets. This involved using Apache Airflow to organise the ETL process and DBT to transform data into views which reduced customer response time.

University of Southampton   *Boldrewood Innovation Campus, Southampton*

English Institute of Sport Research Fellow   *Dec 2019 - July 2020*

I supported Team GB by providing scientific research into several areas. Notable projects include:
- Designing and developing a cloud based web application which reduced the time spent analysing races by 90%, enabling coaches and athletes to access results poolside.
- Managed research into applying multiple machine learning techniques for evaluating the performance of sailing craft.

Hephaestus Data Solutions   *Southampton*

Full stack data scientist   *May, 2020 - Present*

I deliver software solutions to solve business problems.
- Development of web based data driven decision support applications.
- Data science problem analysis.

DSTL   *Portsdown West, Portsmouth*

Naval architect   *Sep 2013 - Aug 2014*

Supported the Royal Navy and Royal Marines with technical investigations and engineering consultancy projects.

Education

University of Southampton   *Boldrewood Innovation Campus, Southampton*

PhD. in Engineering   *2016 - 2020*

MEng in Ship Science/Yacht and Small Craft   *2011 - 2016*

Projects

- In my PhD I used Bayesian statistics to derive new insight into an archaeological problem: The Settlement of Polynesia.
- Identified groups of local area authorities which had similar levels of homelessness based on economic indexes for the charity Shelter at a DataDive hackathon.
- Contributor to the 'pandas' Python data analysis package.
- Maintain personal website written in markdown, HMTL, CSS and generated using Jekyll - *tajd.github.io*.

Languages and Frameworks

Python, SQL, Javascript, Php, Git, Linux, HTML, CSS, Cloud computing (Google Cloud, AWS, Heroku), CI/CD services, Docker