

# Dr Thomas Dickson

DATA SCIENTIST · SOFTWARE ENGINEER · QUANTITATIVE RESEARCHER

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## 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 derived from big data analytics. I develop systems to extract, transform and load data onto a cloud based frontend. I use my data science skill set to solve business problems and identify relevant insights for clients. I pursue my passion for Data Science outside work by competing in Kaggle competitions, attending PyData conferences and by listening to tech podcasts.

## Experience

### Dynamon

Science Park, Chilworth

FULL STACK DATA SCIENTIST

July 2020 - Present

I was the 3<sup>rd</sup> 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. "identified 5% fuel saving as a consequence of using different tyres"
- Development of systems from raw data to user interface.

### 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

Portsmouth West, Portsmouth

NAVAL ARCHITECT

Sep 2013 - Aug 2014

Supported the Royal Navy and Royal Marines with technical investigation 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

- 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.
- Competition in Kaggle competitions, for example, providing uncertainty estimates for sales forecasts.
- Maintain personal website written in markdown, HTML, CSS and generated using Jekyll - [tajd.github.io](https://tajd.github.io).

## Languages and Frameworks

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