

OWEN J. THOMAS

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PROFILE

Enthusiastic graduate seeking experience within data science, about to commence the study of Theoretical Physics at Kings College, London (MSc, part-time). I am a highly competent self-directed learner, and through my experiences I have honed strong practical skills - a result of thorough exposure to scientific problems requiring data-driven solutions. My Python skills were developed in this way through my research internship, and I extended these skills into data science and machine learning through independently led projects, seen on my portfolio website.

EDUCATION

Kings College London

Master of Science - MSc, Theoretical Physics

Present

University of Exeter

Bachelor of Science - BSc (Hons), Physics

2021 - 2024

PROFESSIONAL EXPERIENCE

Research Intern

University of Exeter - Centre for Metamaterial Research and Innovation (CMRI)

June - July 2024

Exeter, Devon

I held the position of a research intern under Dr. Calum Williams with the CMRI at the University of Exeter. My objective was to create a python program for hardware automation by communicating with each hardware components SDK, creating a hypercube of spectral data. The final work culminated in a singular python file with a GUI that allowed researchers to automate and conduct their experiments remotely.

AI Development and Training

Outlier AI - Mathematics Consulting

April - June 2024

Remote

I worked as a model evaluator for Outlier AI, specifically working on the reinforcement of an LLM's mathematical capability. This included inventing unique and original mathematical prompts that were sufficiently complex to stump the model, and then correcting the model so that it may go on to improve its reasoning ability within mathematics.

Skilled Barista

Costa Coffee

2020 - 2021

Chichester, West Sussex

For the period of a year I worked as a skilled barista for Costa Coffee. Working in close-quarters with a busy team, I was able to communicate effectively and keep a cool head under heavy customer load whilst maintaining high standards for a clean and organised workspace.

TECHNICAL SKILLS

- Writing clean, documented code in Python, familiar with a range of modules.
- Using Git through the command line for version control.
- Elementary operations using SQL.
- Training and testing machine learning models with TensorFlow and scikit-learn.
- Static web page development and design using HTML and CSS (please view my project portfolio website at the top of the page).
- Web scraping using selenium/ BeautifulSoup.
- Strong mathematical and statistical skills, including advanced calculus, differential equations, and linear algebra.
- Experience designing and conducting experiments, drawing meaningful conclusions from my data.
- Proven ability and eagerness to continuously learn new programming skills.