OLIVER DENTON

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EDUCATION

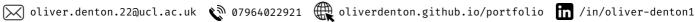**University College London**   **London**

MSc Computational Finance   *Sep 2022 – Sep 2023*

- ➢ Modules: algorithmic trading, numerical methods, financial engineering, market microstructure, financial institutions and markets, data science, and machine learning with applications in finance.

University of Sheffield   **Sheffield**

BSc (Hons) Artificial Intelligence and Computer Science (1st)   *Sep 2019 – Jun 2022*

- ➢ Relevant coursework: Dissertation project titled 'Inferring what retinal neurons encode using machine learning techniques'.

EXPERIENCE

Jefferies International Ltd.   **London**

Equities Developer Intern   *Jun 2022 – Sep 2022*

- ➢ Built compliance tools to process and query Fidessa data dumps upon request from regulators using AWS and a Flask web app, reducing the firm's response time from a few days to a matter of minutes.
- ➢ Implementing swaps margin policies/frameworks for risk evaluation and onboarding of new clients and instruments for (synthetic) prime brokerage desk.
- ➢ Construction of data pipelines and products consisting of historical and ongoing cash equity research papers for external clients such as Two Sigma.
- ➢ Created a system for real-time processing of SWIFT messages to perform securities financing via tri-party towards market cut-off points.

Steyn Group   **Sheffield (Remote)**

Data Engineer & Analyst – Private Equity & Venture Capital   *Nov 2021 – Mar 2022*

- ➢ Scoped and researched data sources to create project plans. Extracting and cleaning data using ETL techniques to build pipelines, unlocking new investment opportunities in student accommodation across the U.K. Created and analysed a dataset used to raise capital in excess of £100M for a new fund.
- ➢ Mining and analysing data, building dashboards and statistical models to value real estate and private companies to model how the market changes week over week.

Defence Science and Technology Laboratory (U.K Ministry of Defence)   **Porton Down**

A.I. Research Intern   *Jun 2021 – Sep 2021*

- ➢ Researched large datasets and developed deep neural networks to perform model discovery, uncovering trends and insights (work covered by security clearance).
- ➢ Wrote modern, performant, and robust Python and PyTorch to create brand new proof-of-concept generative adversarial networks for use in image and natural language processing.
- ➢ Communicated and collaborated with multidisciplinary teams of engineers, military advisors, and industry partners. Presented work and ideas on a regular basis.

Twikker Fund   **Sheffield**

Head of Defensive Sector & Economic Research, Investment Analyst   *Oct 2021 – Jun 2022*

- ➢ Europe's largest student-run investment fund (circa £210,000 AUM). Managed junior analysts, risk, and developed sound investment strategies.
- ➢ Researching, analysing, and pitching investments from a variety of asset classes including equities, bonds, mutual funds, trusts, and commodities.

SKILLS

Programming Languages:	Python, Java, SQL, HMTL, CSS, JavaScript
Libraries and Frameworks:	PyTorch, Bootstrap, numpy, pandas