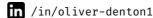# OLIVER DENTON

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WORK EXPERIENCE

Jefferies   **Bishopsgate, City of London**

Intern – Equities Technology   *Jun 2022 – Sep 2022*

- Developed a web application to query large data dumps from order management systems by leveraging AWS, reduced the firm's response time to regulatory requests from 3-4 days to a matter of minutes.
- Implemented swaps margin policies/frameworks for risk evaluation and subsequent onboarding of a new client, directly enabling this fund to trade convertible bonds on margin through the prime brokerage desk.
- Optimised securities financing via triparty by enriching and processing SWIFT messages in real-time towards market cut-off points, increasing daily lending volume by an estimated 10%.

Steyn Group   **Remote**

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

- Constructed data pipelines using ETL techniques and analysed resulting datasets to unlock new investment opportunities in student accommodation: raised capital in excess of £50M for a new fund.
- Created an automated mining tool for real estate data and built statistical models to analyse how the market changes week over week, used in a capital raise of over £100M.

Defence Science & Technology Laboratory - Ministry of Defence   **Porton Down, Salisbury**

Intern – Artificial Intelligence Research   *Jun 2021 – Sep 2021*

- Developed and tested deep neural networks to perform model discovery, uncover trends and insights, and natural language processing (work covered by security clearance).
- Wrote modern, performant, and robust Python and PyTorch to create brand new proof-of-concept generative adversarial networks for image processing/classification and synthetic data generation.
- Communicated and collaborated with multidisciplinary teams of engineers, military advisors, and industry partners. Presented work and ideas on a regular basis.

EDUCATION

University College London (UCL)

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

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'.

EXTRACURRICULAR

Twikker Fund, University of Sheffield Investment Society

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

- Europe's largest student-run investment fund (circa £210,000 AUM). Managed junior analysts, risk, and developed sound investment strategies generating a return of 14%.
- Researched, analysed, and pitched investments from a variety of asset classes including but not limited to equities, fixed income, commodities, and funds.

SKILLS

Programming Languages:	Python, Java, SQL, HMTL, CSS, JavaScript
Libraries and Frameworks:	PyTorch, Bootstrap, numpy, pandas, flask, AWS
Interests and Hobbies:	Basketball, Hiking, Poker