

EDUCATION

Computer Science (Artificial Intelligence) Bsc

Royal Holloway University of London

Relevant Coursework: Software Engineering, Algorithms and Complexity, Databases, Object Oriented Programming

Egham, United Kingdom

2023 – 2026

GCE Advanced Level

Eastbury Sixth Form

Computer Science (Grade: B) History (Grade: B) Psychology (Grade: C)

London, United Kingdom

2021 – 2023

WORK EXPERIENCE

Sentient Capital

London, United Kingdom

Software Developer (Strategy Implementation) – Intern

June 2025 – September 2025

- Contributed to development of a centralized data hub, streamlining access to market data for research teams.
- Developed and deployed **2 monitoring systems** to evaluate proposed trading strategies, enabling real-time research feedback.
- Assisted non-programmers in creating **proof-of-concept strategies**, accelerating validation of quantitative ideas.
- Deployed **cloud computing infrastructure** to support large-scale simulations, reducing runtime by ~40% through parallel processing.
- Strengthened technical expertise in **Python, BQuant, BLPAPI, and Interactive Broker systems**, applying skills to systematic strategies such as earnings momentum, sentiment analysis, and market regime detection.

JKJR Capital LLP

London, United Kingdom

Summer Finance Intern

July 2024 – September 2024

- Gained exposure to the application of **Artificial Intelligence systems** in trading, observing how these tools supported market analysis and reduced research time.
- Developed a foundational understanding of **investment principles and trading practices** through hands-on learning and observation.
- Explored the use of **quantitative analysis and data science techniques** within financial markets, building early insight into systematic approaches.
- Contributed to a project leveraging **AI to streamline market research**, cutting down time taken by analysts by ~20%.

North East London NHS Foundation Trust (NELFT)

London, United Kingdom

Second-line Support Agent & Build Room Intern

July 2019 – August 2019

- Helped in resolving **20+ hardware and software issues** during internship, minimizing downtime and improving staff efficiency.
- Observed how **second-line IT supports** multiple departments, assisting employees with technical needs.
- Assisted in configuring and deploying **30+ new laptops** for staff, streamlining onboarding and reducing setup time.
- Repaired and maintained computing equipment, ensuring high standards of functionality and reliability across the organisation.

PROJECTS

- ARIMA Price Prediction** – Built and tuned ARIMA model to forecast equity price movements, demonstrating applied time-series forecasting for financial markets. Improved baseline predictive accuracy by ~15%.
- Genetic Algorithm Strategy Optimizer** – Developed an evolutionary algorithm to optimize trading strategy parameters, with real-time ROI visualization per generation using Matplotlib. Showcased skills in algorithm design and performance evaluation.
- Financial Data Pipeline** – Engineered a Python-based system to pull, clean, and organize large-scale Bloomberg/market datasets, reducing data preparation time for analysis by ~40%.

SKILLS AND INTERESTS / AWARDS AND ACHIEVEMENTS

Technical: Python (NumPy, Pytorch, Tensorflow, Pandas, data science libraries), BLPAPI/BQuant, Bloomberg Terminal software, SQL, C#, Java, Git, Spring-Boot, Maven, Excel, Google Cloud Platform, system repair and troubleshooting.

Languages: English (fluent), Gujarati (spoken – conversational), Hindi (spoken – conversational)

Interests: Muay Thai, swimming, strength training (*100kg bench press personal best*).