

# Corey Pritchard

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## EDUCATION

### UNIVERSITY OF SOUTHAMPTON

SEPT 2021 - JUN 2025

#### MASTER OF MATHEMATICS, OPERATIONAL RESEARCH, STATISTICS AND ECONOMICS (MMORSE)

- Expected to graduate with First-Class Honours.
- Dean's List Award for outstanding academic achievement.

#### Undergraduate Dissertation

A Blackjack-Inspired Approach to Portfolio Optimisation.

#### Master Thesis

A Volatility Approach to Option Pricing.

### BRISTOL GRAMMAR SCHOOL

SEPT 2019 - JUN 2021

#### • A LEVELS

Maths: A\*  
Economics: A  
Physics: A  
Further Maths AS: A

### THE CASTLE SCHOOL THORNBURY

SEPT 2014 - JUL 2019

#### • GCSEs

Computer Science, Mathematics, Business, Physics,  
Chemistry, Biology, English Literature, English Language,  
Geography, Religious Studies, French



## PROFESSIONAL EXPERIENCE

### Clearing

JULY 2024 - PRESENT *Internship: Summer 2024, followed by part-time consultancy contract*

#### AI PROGRAMMER - PRODUCT DEVELOPER

- Collaborated with senior leadership to **identify key areas for process improvement**, proposing actionable strategies to streamline operations and increase overall productivity.
- **Implemented software solutions** that improved day-to-day workflows, such as automating data entry and payment processing systems.
- Due to the impact of my work, Clearing offered me a **part-time consultancy contract** (20 hours/month) for the remainder of my Master's program, enabling me to continue contributing to the business while balancing my academic responsibilities.
- Currently supporting the business in refining key workflows, including lead generation and automating operations processes, contributing to the goal of expanding its tech-driven solutions.

## SOUTHAMPTON STUDENT EQUITY FUND

SEPTEMBER 2023 - PRESENT

### QUANTITATIVE RESEARCH TEAM LEAD

- Collaborated with team members to implement quantitative models using **Python**.
- Mentored a team of ambitious junior quants to develop their skills in quantitative research.
- Experimented with advanced machine learning techniques, including **CNN-LSTM predictive modelling**.

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### Amazon & Gist

Summer 2021, 2022, 2023

#### WAREHOUSE OPERATIVE

- Maintained high **efficiency** and **accuracy** while picking orders in a fast-paced, high-volume warehouse environment, consistently meeting daily performance targets.

Demonstrated **initiative** and **self-reliance** by working throughout my university breaks to support personal financial independence.

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## TECHNICAL SKILLS

### PROGRAMMING LANGUAGE

- Highly proficient: Python
- Proficient: C++, C#, Julia, MQL4, R, STATA

### QUANTITATIVE ANALYSIS

- Monte Carlo Simulations | Stochastic Processes | Principal Component Analysis | Machine Learning
  - Experience in model development, including **pricing** and **volatility models**, across a range of asset classes.
  - Developed predictive models for implied probabilities and betting odds in **sports markets** using **logistic regression**, then enhanced performance using **XGBoost** techniques.
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## PERSONAL ATTRIBUTES

**INQUISITIVE AND ANALYTICAL:** Strong research mindset with a focus on solving complex quantitative problems through innovative solutions.

**COLLABORATIVE TEAM LEADER:** Proven ability to foster collaboration and clear communication, driving team success in high-stakes environments.

**AMBITIOUS AND STRATEGIC:** Thrives in challenging environments, consistently aiming for excellence and optimal outcomes in all projects.

**AGILE AND ADAPTABLE:** Demonstrates the ability to manage multiple priorities effectively, balancing rigorous academic workload with demanding professional responsibilities.

**LIFELONG LEARNER:** Driven by a deep commitment to continuous learning and personal development, inspired by Tony Robbins' Personal Power and Get the Edge programs.