

Corey Pritchard

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Education

University of Southampton – September 2021 to June 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 Regime-Switching approach to Option Pricing with ARIMA-GARCH Dynamics

Bristol Grammar School – September 2019 to June 2021

A Levels - Mathematics: A* - Further Maths AS: A - Economics: A

The Castle School Thornbury – September 2014 to June 2019

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

Professional Experience

Everpay

AI Programmer - Product Developer

July 2024 – Present

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

- Advised senior management on the **benefits of Artificial Intelligence (AI)** and its application to improve business efficiency, fostering a better understanding of AI's role in driving innovation.
- 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 significantly improved day-to-day workflows, such as automating data entry and payment processing systems.
- Led the **expansion of process improvements** across various business functions, driving efficiency gains in operations.

- Due to the impact of my work, Everpay 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 Everpay's goal of expanding its tech-driven solutions.
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Quantitative Research Team Lead

Southampton Student Equity Fund | Sept 2023 – Present

- 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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Technical Skills

- **Programming Languages**
 - Highly proficient: Python
 - Proficient: C++, C#, Julia, MQL4, R, STATA
 - **Quantitative Analysis**
 - Monte Carlo Simulations | Stochastic Processes | Principal Component Analysis | Mean Reversion
 - Experience in model development, including pricing and volatility models, across a range of asset classes.
 - **CUDA-accelerated model training** for faster computation in high-frequency trading scenarios.
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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 & 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.