

# Faris Chaudhry

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## EDUCATION

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### **BEng Maths and Computer Science – Imperial College London**

**Oct 2022 – Present**

- Greater insight into mathematical underpinnings of computer science especially in machine learning.
- Gained organizational skills from doing a joint degree.
- Team collaboration to plan and develop and deliver projects.

### **GCSEs and A-Levels – The Cotswold School**

**Sep 2015 – Jul 2022**

- Maths (A\*), Further Maths (A\*), Computer Science (A\*), Research Project on AI (A\*), Physics AS (A).
- GCSEs: 9 Grade 9s, Additional Maths (A).

## PROFESSIONAL EXPERIENCE

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### **Data Science and NLP Intern – Data Glacier**

**Aug 2023 – Dec 2023**

A consulting company providing data science and machine learning solutions.

- Use of Python, Flask, Heroku, AWS, and various data science tools.

### **Technology Work Experience – SpringPod**

**Jun 2021**

An educational platform giving students experience in industry.

- Created projects in cybersecurity, data science, web development to present to mentors.

### **Work Experience – Commercial Group**

**Mar 2019**

A software development and consulting company driving customer engagement.

- Participated in software development lifecycle as part of a team.
- Developed software to enhance internal network security.
- Created quantitative SQL reports used in presentations.

## COURSES AND CERTIFICATIONS

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### **Wharton Business School: Introduction to Finance and Accounting, Quantitative Modelling for Analysts**

- Audited and analyzed real balance sheets and income statements.
- Experience with modelling using Python and spreadsheets.
- Essential understanding of terminology in corporate finance and accounting.

### **Machine Learning by Stanford University & DeepLearning.AI**

- Studied industry best practices in machine learning lifecycle.
- Implemented neural networks from raw data to making accurate predictions.
- Experience with unsupervised, supervised and reinforcement learning.

### **HarvardX CS50x Introduction to Computer Science**

- Used a range of languages in practical projects.
- Presented final project (creating a blockchain from scratch) to peers.

## EXTRACURRICULAR

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### **Imperial Finance, Algorithmic Trading, FinTech, and Data Science Societies**

- Developed skills in practical, financially driven context.
- Attended events held by leading industry experts.

## Imperial Horizons Philosophy Modules

- Critically analyzed texts and wrote essays concisely.
- Effectively communicated and defended ideas in group discussions.

## RELEVANT PROJECTS

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**GitHub Source Control** – Windows application using Auth0, AWS, and GitHub API for managing repositories.  
**ECG Neural Network** – Detected abnormalities in ECG graphs using supervised machine learning algorithms.  
**Stock Return Analysis and Risk Management** – Computed quantitative metrics on securities such as Sharpe, Sortino, and Treynor Ratios to reduce unsystematic risk.  
**Portfolio Optimization and Diversification** – Maximized multi-asset portfolio returns with Markowitz models and correlation matrices.  
**ARM v8 Emulator and Assembler** – working in team to convert assembly code to machine code and emulate it on Raspberry Pi OS.

## PROGRAMMING SKILLS

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**Python:** NumPy, Keras, TensorFlow, Pandas, scikit-learn, SciPy, Matplotlib  
**Technologies:** Git Version Control, AWS, PostgreSQL, Mathematica  
**Other Languages:** R, C#, C, Haskell, Lua, HTML, CSS, LaTeX