Faris Chaudhry

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EDUCATION

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

***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

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

JPMorgan Chase & Co Quantitative Research Experience

- Completed a simulation focused on quantitative research methods.
- Analysed a book of loans to estimate a customer's probability of default.
- Used dynamic programming to convert FICO scores into categorical data to predict defaults.

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

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

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

References available on request.