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EDUCATION

2023 - Imperial College London

Present

MSc. Risk Management and Financial Engineering

Financial Statistics, Advanced Financial Statistics, Stochastic Calculus, Advanced Options Theory, Market Microstructure: Trading and Liquidity, Computational Finance in C++, Financial Engineering

2017 - The University of Manchester

2020

B.Eng. Electrical and Electronic Engineering, First Class Honors

Numerical Analysis, Computer Systems Architecture, Digital Signal Processing, Control Systems, Data Networking, Engineering Maths, Mathematics 1E1, Mathematics 1E2, Mathematics 2E1

TECHNICAL SKILLS - GitHub Link: https://github.com/talhajamal11

\Diamond	Python	\Diamond	kdb+	\Diamond	Batch Scripts	\Diamond	Docker
\Diamond	C++	\Diamond	SQL	\Diamond	PowerShell	\Diamond	Jenkins
\Diamond	R	\Diamond	DBMS	\Diamond	Linux	\Diamond	Version Control

Personal Projects

- Human Activity Recognition using Time Series Data with CNNs and LSTM RNNs <u>Link</u>.
- ♦ Visualizing a Nasdaq Market Order Book using Python <u>Link</u>.
- ♦ Practicing Data Structure and Algorithm Exercises from Jay Wengrow's DSA Book <u>Link</u>.

WORK EXPERIENCE

2021 - S&P Global Market Intelligence 2023 Quantitative Specialist, Investment Management

- ♦ Knowledge Expert of ClariFI, a Quantitative Research and Portfolio Management Product.
- Quantitative expert on Factor Backtesting, Event Study, Algorithmic Trading, Forecast Modelling,
 Portfolio Optimization and Portfolio Attribution.
- ♦ Gained Research Experience in Feature Generation using R and ClariFI's internal visual query language exploring SPGMI and IHS Markit's fundamental, market and alternative datasets.
- Developing Python Scripts to process and transform time-series and point-in-time data for seamless integration into Tableau, catering to client's request for data visualization.
- ♦ Building and Backtesting Trading Strategies for clients using C++ e.g., created momentum, mean reversion, statistical arbitrage and factor investing strategies to create Market Neutral Portfolios.
- \diamond Utilized SQL queries to generate attributes for ClariFI's Security Master using Compustat Data.
- Enhanced Team Productivity by automating tasks using Batch and PowerShell Scripts.
- ♦ Spearheaded the development and integration of ClariFI's API by collaborating with Developers and creating interactive notebooks to demonstrate the capabilities of the API to clients.
- ♦ Led the development of a repository and version control system for automation scripts created by the Quant Specialists team at S&P fostering improved collaboration amongst team members.
- ♦ Facilitated communication between clients and the developer team by aligning product features with client requests and overseeing User Acceptance Testing, enhancing my commercial acumen.

Interests and Achievements

- ♦ Passed CFA Level 1
- Reading books related to Mathematics, Statistics, Programming and Quantitative Finance.
- Regularly watching Mathematics and Machine Learning lectures from 3blue1brown and Stat Quest on YouTube.