

TALHA JAMAL

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EDUCATION

2023 - 2024	Imperial College London <i>MSc Risk Management & Financial Engineering</i> <i>Machine Learning, Financial Statistics, Advanced Financial Statistics, Computation Finance in C++, Stochastic Calculus, Advanced Options Theory, Financial Engineering, Data Structures and Algorithms</i>	London, UK
2017 - 2020	The University of Manchester <i>B.Eng. Electrical and Electronic Engineering, First Class Honours</i> <i>Mathematics 1E1, Mathematics 1E2, Mathematics 2E1, Numerical Analysis, Concurrent Systems, Signals & Systems, Data Networking, C Programming, Computer Systems Architecture</i> <i>Dissertation: Human Activity Recognition using Time Series Data with CNNs and LSTM RNNs</i>	Manchester, UK

WORK EXPERIENCE

2021 - 2023	S&P Global Market Intelligence Quantitative Specialist <ul style="list-style-type: none">Gained research experience by modelling quantitative research and portfolio optimization workflows for 20 North American clients, leveraging datasets like Compustat, CIQ, and Short Interest DataSimulated proprietary momentum, mean reversion, & factor investing strategies for clients via C++ scripts, reducing runtime by 10% and accelerating portfolio rebalancing for clientsDeveloped python scripts to manipulate time-series and point-in-time data for visualization in Tableau, making an Alteryx subscription redundant, resulting in cost savings of \$100kFormulated a strategy with product management to introduce ClariFI's API to clients, created 5 sample interactive python notebooks and delivered demos & training sessions to clients globallyInitiated a repository and version control system for API and automation scripts, enhancing team collaboration and ensuring efficient organization, retrieval and preservation of codeBuilt strategic relationships with clients by facilitating communication between clients and developers and aligning product features with client requests, resulting in a 100% client renewal rate and \$960k ACV for 10 North American & EMEA clients	Islamabad, Pakistan
July – Aug 2019	Bykea (Ride Hailing Startup) Data Analyst – Intern <ul style="list-style-type: none">Engineered a solution to distribute performance-driven incentives to high-performing driversAutomated tasks using Batch and PowerShell Scripts, improving team productivity by 5%	Islamabad, Pakistan

ACHIEVEMENTS

2020	Technology Start-up Mentor, Manchester Entrepreneurs <ul style="list-style-type: none">Mentored a cohort of 20 start-ups at AccelerateME, a student led start-up accelerator, culminating in a Demo Day where start-up founders pitched business ideas and products to 500 investors	Manchester, UK
2018 - 2020	EEE Pass Scheme Leader & Coordinator <ul style="list-style-type: none">Lead the Peer Assisted Student Support scheme across the Electrical and Electronic Engineering Department, helping 360 junior students navigate academic and personal lives at university	Manchester, UK

ADDITIONAL SKILLS

IT SKILLS

Programming Languages: Python (advanced), C++ (Intermediate), SQL (Intermediate), R (Basic)
Scripting Languages: Batch Scripts (Intermediate), PowerShell (Basic), Linux/Bash (Basic)
Software: VScode, PyCharm, Databricks, Snowflake, SSMS, kdb+, Docker

LANGUAGES

English (fluent), Urdu (Native), Pashto (Native)

CERTIFICATIONS

Passed CFA Level 1, April 2022

EXTRA CURRICULAR ACTIVITIES

- Engaging in endurance exercises, aiming to finish the London Marathon in under 5 hours in 2025