**TALHA JAMAL**

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EDUCATION

**Aug 2023 -** **Imperial College London London, UK Aug 2024** *MSc Risk Management and Financial Engineering*

*Machine Learning, Financial Statistics, Advanced Financial Statistics, Computation Finance in C++,*

*Stochastic Calculus, Advanced Options Theory, Financial Engineering, Data Structures and Algorithms*

**Aug 2017 - The University of Manchester Manchester, UK**

**Aug 2020** *B.Eng. Electrical and Electronic Engineering, First Class Honours*

*Mathematics, Numerical Analysis, Concurrent Systems, Signals and Systems, Control Systems,*

*Data Networking, C Programming, Computer Systems Architecture, Embedded Systems*

*Dissertation: Human Activity Recognition using Time Series Data with CNNs and LSTM RNNs*

WORK EXPERIENCE

**May 2021 - S&P Global Market Intelligence Islamabad, Pakistan**

**Aug 2023** **Quantitative Specialist**

* Gained research experience by modelling quantitative research and portfolio optimization workflows for 20 North American clients, leveraging Compustat, CIQ, and Short Interest Data
* Simulated proprietary momentum, mean reversion, and factor investing strategies for clients via C++ scripts, reducing runtime by 10% and accelerating portfolio rebalancing for clients
* Developed 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 $100k
* Formulated a strategy with product management to introduce ClariFI’s API to clients, created 5 sample interactive python notebooks and delivered demos and training sessions to clients globally
* Initiated a repository and version control system for API and automation scripts, enhancing team collaboration and ensuring efficient organization, retrieval and preservation of code
* Built 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 and EMEA clients

**July 2019 - Bykea (Ride Hailing Startup) Islamabad, Pakistan**

**Sep 2019 Data Analyst – Intern**

* Engineered a solution to distribute performance-driven incentives to high-performing drivers
* Automated tasks using Batch and PowerShell Scripts, improving team productivity by 5%

ACHIEVEMENTS

**2020 Technology Start-up Mentor, Manchester Entrepreneurs Manchester, UK**

* 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

**2018 - 2020 EEE Pass Scheme Leader and Coordinator Manchester, UK**

* 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

**ADDITIONAL SKILLS**

**IT SKILLS**

Programming Languages: Python (Intermediate), C++ (Basic), SQL (Intermediate), R (Basic)

Scripting Languages: Batch Scripts (Intermediate), PowerShell (Basic), Linux/Bash (Basic)

Software: VScode, PyCharm, Databricks, Snowflake, SSMS

**LANGUAGES**

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

**CERTIFICATIONS**

Passed CFA Level 1, April 2022

EXTRA CURRICULAR ACTIVITIES

* Reading, Running, Hiking, and Football