**Talha** **Jamal**

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**WORK EXPERIENCE**

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| **2021-2023** | **Quantitative Specialist, S&P Global Market Intelligence**   * Knowledge Expert of ClariFI, a Quantitative Research and Portfolio Management Product. * Quantitative Consultant on Factor Backtesting, Algorithmic Trading, Forecast Modelling, Event Study, Portfolio Optimization, and Portfolio Attribution for 10 clients in North America & EMEA. * Gained Research Experience in Feature Generation using R and ClariFI’s visual query language by evaluating new datasets, such as Short Interest Data, following the S&P and IHS Markit merger. * Developed Python Scripts to manipulate time-series and point-in-time data for visualization in Tableau, eliminating the need for an Alteryx subscription, resulting in cost savings of $100k. * Backtested proprietary momentum, mean reversion, and factor investing strategies for clients via custom C++ scripts, reducing runtime by 10% and streamlining month end portfolio rebalancing. * Spearheaded the development and integration of ClariFI’s API by collaborating with Developers, creating Interactive Notebooks, and effectively delivering API demos to a global client base. * Automated tasks using Batch and PowerShell Scripts, enhancing team productivity by 5%. * Led the development of a repository and version control system for API and automation related scripts, ensuring efficient organization, retrieval, and preservation of code. * Facilitated communication between clients and the developers by aligning product features with client requests, resulting in a 100% renewal rate and $960k ACV for clients on my book. |

**EDUCATION**

**2023 – Imperial College London  
2024** MSc. Risk Management and Financial Engineering

Advanced Financial Statistics, Machine Learning, Computational Finance, Portfolio Management

Stochastic Calculus, Advanced Options Theory, Financial Engineering, Data Structures & Algorithms

**2017 – The University of Manchester**

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

Mathematics 1E1, Mathematics 1E2, Mathematics 2E1, Numerical Analysis, Data Networking,

Signals & Systems, Control Systems, Digital System Design, Digital Signal Processing,

C Programming, Concurrent Systems, Computer Systems Architecture, Embedded Systems

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

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| * Python | * kdb+ | * Batch Scripts | * Docker |
| * C++ | * SQL | * PowerShell | * Jenkins |
| * R | * DBMS | * Linux | * Version Control |

**Select Projects**

* + Human Activity Recognition using Time Series Data with CNNs and LSTM RNNs – [Link](https://github.com/talhajamal11/Human-Activity-Recognition-using-CNN-and-LSTM-RNN).
  + Visualizing a Nasdaq Market Order Book using Python – [Link](https://github.com/talhajamal11/Visualizing-an-Order-Book).
  + Practicing Data Structure and Algorithm Exercises from Jay Wengrow’s DSA Book – [Link](https://github.com/talhajamal11/Data_Structures_and_Algorithms).

**Interests and Achievements**

* Passed CFA Level 1, April 2022.
* Avid consumer of Mathematics, Statistics, and Machine Learning lectures from YouTube Channels such as 3blue1brown, Veritasium, and Stat Quest.
* Actively pursuing weight-lifting and high-intensity cardio workouts to stay fit and focused.

References are available upon request.