Karl Kareem Melaimi

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Education:

Imperial College London   **2018 - 2022**

MEng Electronic and Information Engineering (Computer Engineering), Incoming 3rd year modules:

- Mathematics for Signals & Systems
- Machine Learning
- Deep Learning
- Advanced Signal Processing
- Operations Research
- Accounting
- High level Programming (F#)
- Performance Engineering

Wembley High Technology College   **2010 - 2017**

- A-Levels: Mathematics (A*), Further Mathematics (A*), Physics (A), AS-Economics(A)

Relevant Work Experience:

Tudor Investment Corp, Quant Risk Analyst   **July 2019 – Sept 2019**

- Developing a range of tools for the Risk team in Python (Significant Bloomberg API use) used by ~**10 people across £10B AUM**
- Acted as **Full Stack Developer** managing successful firmwide deployment across business (**2k** lines of production code live)
- Aiding traders in performing market analysis by providing **statistical analysis** and **data visualisation** to their workflow

Kaiku, (https://www.kaiku.co/**) - Strategy & Deals**   **October 2018 – December 2019**

- Reaching out to & handling **manual onboarding** of our start-ups & Investors
- **Leading** the product team, deciding/creating the content for our website & social media
- Consulting entrepreneurs, interviewing understand content requirements and start-up user needs

Bloomberg, Global Data Analyst, Economics   **Sept 2017 – Sept 2018**

- Carrying out data analysis within **Python**, using Pandas/NumPy/Matplotlib.
- Created a script used in monthly meetings to provide insights into stale tickers
- Data manipulation within **Excel/VBA** and internal Bloomberg tools for parsing data
- Resolved client queries in a timely and accurate manner. **100%** of client queries answered within Service-Level agreement time

Other Experience:

Jane Street, Electronic Trading Competition   **October 2020**

- Developed a novel trading strategy in a simulated market maintaining top 10 PnL rank… It all went wrong when I replicated code without changing the trade direction, causing me to buy a certain instrument without selling, incurring roughly 300k of debt. I have learned my lesson!

IMC, Quantitative Trading Workshop   **October 2020**

- Learned the basics of Option theory and implemented a few interesting strategies, including delta-one hedging. Please ask me about this!

Facebook, Analytics Academy 2020   **October 2020**

- Performed basic statistical analysis to discover insights about user habits from multiple datasets using Python, (NumPy, Pandas, etc), and present these to a panel at Facebook

Citadel, Trading Simulation Challenge   **November 2020**

- A comprehensive introduction into the roles of a hedge fund and market maker, including a manual and code based market making challenge

Projects:

- Built a **MIPS1 CPU simulator (C++)**, a **C90 to MIPS Compiler (C++)** and a **C90 to Python translator (C++)**
- Built the backend (**RESTful API in Python**) of an app for identifying & aiding the recycling of rubbish on the street, **winning** the 2019 **Google BGN Hackathon**
- Developed real-time traffic sign detection software with a **Xilinx PYNQ-Z1 FPGA**, using **Vivado HLS & C**

Skills and Interests:

- Proficiency in **Python(NumPy, Pandas, Matplotlib, etc.)**, **C++, C** & **Arm Assembly language**
- Invested in learning Statistical Learning outside of class by reading ISLR amongst others:
  - I aim to be experienced with statistical methods such as **linear models**, **multivariate analysis**, **stochastic processes**, and **sampling methods**.
- I have an interest in trivia and casual problem solving demonstrated by my participation and 3rd place position in the **Jane Street** CStimathon
- Interest in Data Science and Machine Learning, gained understanding through Cambridge Spark after being selected by **JP Morgan** to attend a 10-hour workshop
- Frequently practice **Judo** (Brown belt), competing regularly in national competitions
- Member of the **Amos Bursary** which aims to enhance the professional careers of young black men through the provision of knowledge alongside academic, cultural and professional events
- Level 3 Personal Trainer and Spin Cycle Instructor