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 deltaone 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; challenges included manual market making to get to grips with the concept and then an automation challenge in python

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:
 - o 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