

# Ramin Tawab

[ramintawab@hotmail.co.uk](mailto:ramintawab@hotmail.co.uk)

## Education

**2016 – 2020: University of Warwick**

**Masters:** Mathematics and Physics. Predicted 2:1.

**2011 – 2016: Whitmore Highschool and Sixth Form**

**A Levels:** Mathematics A\* Further Mathematics A\* Physics B

**AS Level:** Computer Science A

**GCSEs:** 14 A\* - A grades including Mathematics and English

## Skills

For exemplary projects in programming and data science visit [ramin-tawab.appspot.com](http://ramin-tawab.appspot.com)

- Theoretical and practical understanding of machine learning and statistics.
- Fluent in Python. Comfortable with JavaScript, C, C#, Visual Basic, and Java.
- Familiar with SQL. Working knowledge of several AWS products.
- Great at communicating with people at every level of industry.

## Experience

**Jun – Sep 2019: Machine Learning Research Intern at BMLL Technologies Ltd.**

- Researched, designed, developed and tested a Python API for validating financial simulations with respect to empirical properties of limit order books.
- Implemented academic journal findings in Python including agent-based models of financial markets and inverse reinforcement learning algorithms. Tested their results both locally and at scale in a distributed environment using Jupyter notebooks.
- Collaborated on a research project which was transferred to a series of posters.

**Jan – May 2019: Full Stack Lead Developer at BookB Ltd.**

- Developed a Django web application deployed via AWS Elastic Beanstalk with an AWS RDS PostgreSQL backend and an HTML/CSS/JS frontend. The demo helped secure BookB an interview with Y Combinator in California and subsequent acceptance into the Public startup accelerator.
- Developed an Android application deployed via Jasonette using Cron for scheduling.

**Dec 2018: Winner of National Npower Forecasting Competition.**

- Employed a research driven and domain knowledge centric approach to forecasting consumer gas consumption using multiple multivariate linear regression in Python. The final model outperformed competing gradient boosting solutions.
- Communicated the assumptions of my methodology to a committee of experts.

**Oct – Dec 2018: Developer at AITutor.**

- Contributed to a GitHub repository written in TypeScript that automates the generation of A-Level Statistics exam questions for students to revise from.
- Gained experience with PostgreSQL, Apollo GraphQL, Docker, and Linux.

**Jul – Sep 2018: Stock Counting Operative at Retail & Asset Solutions.**

- Demonstrated concentration and persistence by counting and arranging stock for long hours during night shifts.
- Acquired familiarity with the operation of various businesses such as B&Q and Tesco and gained experience communicating with different levels of management as well as effectively addressing customers.
- Proved reliability by travelling to work places outside Business hours on short notice and working in difficult conditions such as freezing rooms and elevated platforms.

**Jul 2017: Freelance Proprietary Software Developer.**

- Developed an algorithm that improved upon the matched betting process using a data driven statistical approach and designed software that made this accessible.
- Gained experience meeting client needs, negotiating a price, and closing a deal.

**Jul 2015: Intern at British Petrol Debt Capital Markets PLC, Canary Wharf, London, UK.**

- Pulled data from the Bloomberg terminal and conducted independent research to set up a spreadsheet comparing BP's cost of debt to its major global competitors and analysed the results. My report was used to inform business decisions.
- Worked as part of a team to deliver a training course explaining financial swaps and bonds to a conference of non-technical staff members.

**Jul 2014: Intern at Frasers Accountants, Kingsbury, London, UK.**

- Formatted accounts spreadsheets and manually entered data from balance sheets as well as cleaning existing data on the system.
- Photocopied and filed business records and had the responsibility of answering phone calls and handing cash to the bank.

**Extra-Curricular Interests**

- Qualified for the British Maths Olympiad.
- Second degree black belt in Karate and active Muay Thai Kickboxer.

**References**

Available upon request.