Edward Antonian

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Masters student studying Data Science at Edinburgh University with an undergraduate degree in physics from the University of Durham. I want a career helping to solve meaningful problems in science, data analysis and software development. I am ambitious, never pass on new learning opportunities, and try to apply myself with drive, enthusiasm and initiative at all times.

Education & Qualifications

MSc Data Science - University of Edinburgh, UK   **September 2018 − Present**
- Courses cover a range of practical and theoretical skills around data science, machine learning and scientific computing.
- Dissertation centers around Bayesian inference as applied to white blood cell migration models during wound repair.

BSc Physics - University of Durham, UK   **September 2014 − June 2018**
- Achieved a first class honours degree with a final average mark of 77%.
- Covered a broad range of maths and physics and gained hands-on experience with scientific computation and data analysis.

Year Abroad - National University of Singapore, Singapore   **August 2016 − May 2017**
- Modules included financial mathematics, probability & statistics, computational physics, programming in C.

Abingdon School, UK   **September 2009 − June 2014**
- A levels: Maths – A*. Further Maths – A*. Physics – A. Economics – A. GCSEs: 9 A*s, 2 As.

Relevant Experience

Data Science Intern, StatusToday, UK   **April − September 2018**

StatusToday is a leading HR-tech startup providing AI-powered wellness and productivity insights for employees and managers. I worked in the data science team of four people where we developed the python back-end, built new insights and designed data visualisations. Some of my key responsibilities were:
- Creating a time-series "email overload" metric, as a predictor of employee burnout.
- Using object-oriented design patterns to build new back-end features. Debugging and optimising existing code.

→ Technologies: Python (Scientific stack, OOP), Spark, MongoDB, Linux.
→ Outcomes: Worked on live, production-grade code in a real data science environment. Developed technical and professional skills.

Quant/Data Science Intern, Smartfolios, Singapore   **April − July 2017**

Smartfolios is a digital advisory and wealth management platform offering users algorithmically rebalanced, thematic equity portfolios. During my time the company was taking part in a three-month fintech accelerator programme *StartupBootCamp*. My role largely involved researching and implementing portfolio optimisation strategies.
- Built Singapore's first robo-advisor using CVaR optimisation. Was licensed for use by Singapore-based Marvelstone Capital.
- Built a model for scenario projection by approximating the solution to a set of stochastic differential equations.

→ Technologies: Python (Scientific stack), Quantopian/Zipline, SQL.
→ Outcomes: Developed research and coding skills, developed professional confidence.

Equities Intern, AIMS Asset Management, Malaysia   **July − August 2016**

Worked within the Panah Fund of AIMS, an Asian markets equity long/short hedge fund group.
- Created VBA application to pull and visualise macroeconomic data in order to compare and analyse global trends.
- Worked on an error analysis model for determining fair market capitalisation and associated uncertainty.

→ Technologies: VBA for Excel, Bloomberg terminal + API.
→ Gained hands-on programming experience and worked as part of a team in a high-pressure environment

Maths/Programming Tutoring, UK   **2012 - Present**

Since sixth form, I have tutored maths one-on-one to a range of age groups. This has included both private work and volunteering with Durham's SCA group. In 2019 I joined charity *TheDataKirk* to mentor data analysis/programming skills to under represented groups. The experience has taught me the importance of organisation and time management, increased my professional confidence and helped me build the ability to communicate salient details concisely and effectively.

Skills

- Proficient in object-oriented Python. Good knowledge of all common scientific packages, plus pymongo, pyspark and several deep learning frameworks.
- Working knowledge of Java, Matlab, VBA, C.
- Experience working with remote databases and servers.
- Linear algebra, calculus, probability, machine learning.
- Basic web design in HTML, CSS, JavaScript.
- Ability to perform under pressure, cope with large workloads and consistently meet deadlines.
- Good inter-personal communication skills, enthusiasm, tact & diplomacy and sense of humour.

Interests

- Competing and coaching at college rowing club.
- University debating.
- Maintaining maths/programming blog. Find it here.
- Self-improvement and mindfulness meditation.