

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 uses computer vision to infer underlying model parameters of white blood cell response 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 modelling, 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 where we developed the python back-end, built new insights and designed data visualisations for customers. It was a fast-paced environment and my tasks varied from week to week. However some of my key contributions were:

- Creating a time-series email overload metric, a key burnout indicator.
- Using object-oriented design patterns to build new and develop existing back-end features.


→ Worked on production-grade code in a real data science environment. Learned many practical and professional skills.

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

Smartfolios is a digital advisory and wealth management platform offering users customised thematic equity portfolios. During my time the company was taking part in a three-month accelerator programme *StartupBootCamp*. My role largely involved researching and implementing financial optimisation models with an emphasis on theoretical underpinnings and clean, efficient code.

- Built Singapore's first robo-advisor using CVaR optimisation and a corresponding stochastic model for scenario projection.
- Researched, built and back-tested various trading strategies.


→ Developed research and coding skills (Python, SQL), 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.

→ Gained hands-on programming experience and worked as part of a team in a high-pressure environment

 **Systems Engineering Intern, F5 Networks, Singapore** **June – July 2016**

F5 Networks is a large tech company providing application delivery networking such as server load-balancing and security.

- Worked in a team creating a VBA application to generate different combinations of services available within a certain budget, in order to help sales teams respond more quickly and efficiently to client requests.

→ Applied programming skills to a real-world problem and worked in a team environment.

Maths 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 Student Community Action group. 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 basic scientific packages, plus pymongo, pyspark and several deep learning frameworks.
- Working knowledge of Java, Matlab, VBA, R, C.
- Basic web design in CSS, HTML, JavaScript.
- Experience working with remote databases and servers.
- Linear algebra, calculus and probability.
- Ability to perform under pressure, cope with large work-

loads 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 Data Science centred blog. Find it [here](#).
- Self-improvement and learning new skills.