

# Thomas Bayley

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## EDUCATION

**Imperial College London**

**London, UK** | 2017 - 2021

**MEng Electrical and Electronic Engineering**

3<sup>rd</sup> Year Modules Include: Biomedical Electronics, Digital Signal Processing, Machine/Deep Learning, Embedded Systems

**Exeter School**

**Exeter, UK** | 2010 - 2017

**A Level** Further Maths (A\*), Maths (A), Physics (A), Electronics (A\*)

**GCSE** 6 A\*'s; Biology, Chemistry, English Literature, History, Mathematics, Physics

4 A's; English Language, French, Geography, Latin

## WORK EXPERIENCE

**xAI Asset Management**

**London, UK** | July - September 2020

- ❖ xAI Asset Management uses machine learning techniques combined with macro-economic analysis in order to make predictions about the financial markets
- ❖ Analysed financial time series data and tested different **data analysis** methods in **Python** for xAI's webapp

**xAI Asset Management**

**London, UK** | June - August 2019

- ❖ Over six weeks, had the task of prototyping an iOS app that implemented one of xAI's machine learning models
- ❖ Used and built on prior knowledge of **Python** and **Swift** to develop the front and backend of the app
- ❖ Learnt about programming languages such as **PHP**, **Java** and **HTML**

**The Devon Marquee Company**

**Devon, UK** | June 2018

- ❖ Worked for one month driving company vehicles to events and erecting marquees, having to learn quickly so that I could teach new employees how to set up big tents

**Omada Capital**

**London, UK** | June 2015

- ❖ Spent two weeks, in a small corporate finance house, developing a teaser presentation designed to interest potential investors in a company

## POSITIONS OF LEADERSHIP

**Treasurer** of Imperial Cross-country and Athletics Society

2019 - 2020

**Secretary** for Imperial Fencing Society

2018 - 2019

**Prefect** at Exeter School

2016 - 2017

## PROJECTS

**App Development** – I have been working on developing a game with the intention of launching it on the App Store in the near future. This project has been rewarding in that I have been able to gain a lot more experience in Apple's programming language, **Swift**, and I've had to think very carefully about how to maximise the popularity of my product and structure it so as to reduce the risk of its being copied.

**Vein Identifier** – For my 2nd year University group project, I built a system to identify the precise location of a patient's veins and thus the optimal location in which to make an injection. This product can reduce the number of unsuccessful injections, thereby improving patient experience.

Please visit my website to find out about more of my projects: [tajbayley.github.io](http://tajbayley.github.io)

## ACHIEVEMENTS / SPORTING & OTHER INTERESTS

**UKMT** – Senior Maths Challenge Gold award and Kangaroo 2016

**CCF** – Member Royal Navy Section 2015-2017

**Electronics A Level Subject Prize** – Exeter School 2017

**Modern Pentathlon** – Although having only started Modern Pentathlon when I took up fencing at Imperial, I was pleased to finish 4<sup>th</sup> in the BUCS Modern Pentathlon Championships, 2019.

**Fund-raising** – Raised monies for the charity, Battle Back, by operating an informal tuck shop during school break-times. I took part in the Bristol Half-Marathon in 2017 and was sponsored to raise funds for the charity, Autistica.

**Cider Making** – Each September, I attempt to make cider using the apples from our garden. As well as being surprisingly hard work, given we have a manual press, it is incredibly rewarding, since about six months later I get to drink it.

**Cooking** – I enjoy eating, the more so if I have prepared the meal myself and particularly if I can share it with friends, my most popular dish being pigeon burgers.