

# ROHAN PRITCHARD

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*High performing third year Computing undergraduate at Imperial College London. Particularly interested in using data analytics to solve complex problems and build better products.*

## 🎓 EDUCATION AND AWARDS

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**Imperial College London** *October 2016 - Present*  
2nd Year Undergraduate **Year 1 and 2 Grade: First Class Honours**  
Computing with Artificial Intelligence (MEng)  
Elected DoCSoc (Imperial Computing Society) Industrial Liaison 2018-19

**Sackville Sixth Form 2A\* 3A** *Further Maths, Maths, Physics, Philosophy, Economics AS*  
Arkwright Scholarship in Cambridge to study Physics (Residential Course 2016).

## 🏢 INDUSTRIAL EXPERIENCE

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**Morgan Stanley - Summer Technology Analyst** 10 Weeks - Summer 2018

- Designed, developed and integrated a **continuous deployment** pipeline into AxiomSL (a financial regulatory tool) combining version control and Jira Project Tracking software to promote **agile development** and rapidly decrease deployment time. Being trialled in London to great success, expected to roll out globally.

**CCEngineering - Technical Engineering Internship** 10 Weeks - Summer 2017

- Project Management of **network and site configuration** for major business to business client. This involved diagnosing network issues, configuring site kits, deploying and instructing field engineers, and resolving urgent 'site-down' situations **within a team**. - References available.

## 📦 PROJECTS

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**ML Photo Resolution Enhancer - Supervised by Facebook** *Python, Microsoft Cognitive Services -*  
March 2018

- Built on top of an open-source project using **Generative Adversarial Networks** to improve the resolution of photos as part of a project with Facebook London. Used Microsoft Cognitive Services to pick out features of photos, enhance them on specialized models, and stitch them back in.

**PintOS Operating System** *C, Git - March 2018*

- Developed and **team led** an operating system for the x86 instruction set architecture with many **concurrency** challenges. Including thread scheduling, and **managing virtual memory**. Attained over 90%.

**Housing Network WebApp** *Python, Django, HTML, CSS, JavaScript, Git - June 2018*

- Award winning networking site to improve student housing experience built using Django. Features user authentication, record management via an **SQL database** and use of **front end APIs** to display helpful information like commute to campus. Attained over 90%.

🏆 First Place in IBM Best WebApp prize (Imperial College Award).

**ML Algorithm Research Project** *Python, Scikit, HTML & CSS, Git - Autumn 2016*

- A multiple award winning group research project **team led by myself**. Investigating extensions of **ML Decision Trees in a big data context** (random forests, dimensionality reduction and boosting) to enhance their performance on particular datasets. Presented to audience of researchers. Attained over 90%.

🏆 Most outstanding group project 🏆 Most outstanding presentation (Imperial College Awards).

**WACC Compiler** *Java, ANTLR, Git - Autumn 2017*

- Worked in a team to develop a compiler for an imperative language using ANTLR4, personally worked on the **Abstract Syntax Tree data type**, back end system design and making the language **object oriented** as an extension. Attained over 90%.