# ANDREW J. YOUNG

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## EDUCATION

**Imperial College London**                                                            *2016-2019*
Computer Science and Mathematics (BEng)

Societies: Debating, Dept. of Computing (DoCSoc), Mathematics, Finance, Investment

**Queen Elizabeth's School, Barnet**                                                    *2009-2016*
A2: 4 A*s (highest) in Math, Further Math, Physics, and Chemistry; GCSE: 13 A*s (highest)

## PROFESSIONAL EXPERIENCE

**Quantitative Risk (qRisk), JPMorgan Chase**                              Jun 2018-Aug 2018
*Software Developer*                                                                    *London, UK*
· Developed the overnight batch process for the company's risk platform, interacting with APIs and legacy code.
· **Keywords:** Python, HPC, Protobuf, XML, JSON, Kafka, Compression, Caching

**Opesci Group, Imperial College London**                                  May 2017 - Aug 2017
*Research Intern*                                                                       *London, UK*
· Solved complex ODEs using python; implemented these using the team's package; adding to the codebase.
· Wrote tutorials in Jupyter notebook for solving ODEs.

**JPMorgan Chase**                                                                      Apr 2017
*Spring into Technology*                                                                *London, UK*
· Shadowed employees from software divisions and engaged in group coding projects.

**Hoteling**                                                                            Jul 2016 - Sep 2016
*Asakusa Guest House Manager*                                                           *Tokyo, JP*
· Managed a 4 story guest house, developed a language acquisition program for international students, and performed English-Japanese-Chinese translation.

## PROJECTS

***BP Space Analytics (Python, R)*** Given historical data from BP about employee habits, used data science and machine learning techniques to produce various visualizations and security analyses to draw conclusions.

***Quest.io* (Javascript)** Created a web application using React Native, mongoDB, and REST APIs which implemented a voting platform, chat, and a route planning algorithm for groups to plan daily travel routes.

***Pintos* (C)** Built on top of a legacy code base in order to produce a fully functional concurrent OS.

***PlugInBaby* (Python, node.js)** An IOTA web app to finds charging stations and transacts automatically on the IOTA tangle. Designed in cooperation with the IOTA developers.

***WACC compiler* (C)** Designed and built a fully in-house compiler and code-generator from WACC into Arm11.

***Arm11 compiler* (C)** Built a compiler into C for the Arm11 language with code compiling on a raspberry pi.

## LANGUAGES

| **English** | **Japanese** | **Chinese** | **French** | **Spanish** | **German** |
|---|---|---|---|---|---|
| Native | Fluent (C1) | Intermediate (B2) | Basic (B1) | Basic (A2) | Basic (A2) |

## TECHNICAL SKILLS

**Software Langs:** Assembly, C, CSS, HTML, Haskell, Java, Javascript, Prolog, Python, Scala, (no)SQL, LaTeX

**Software Tools:** Emacs, JetBrains IDEs, MS Office, Vim Linux, MacOS, Windows, Git, Node.js, React (Native)