

# ANDREW J. YOUNG

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## EDUCATION

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### Imperial College London

Computer Science and Mathematics (BEng)

### Queen Elizabeth's School, Barnet

A-levels: 4 A\*s (highest) in Math, Further Math, Physics, and Chemistry; GCSE: 13 A\*s (highest)

## EXPERIENCE

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### Global Technology Infrastructure, JPMorgan Chase

from 2019

*Software Developer*

*London, UK*

- Worked on a configuration management framework for VMs across data centers globally, and VM load balancing infrastructure.
- Compilation and parsing; identity; python; product ownership. 0 to production API in 3 months.
- Trained in agile; certified in application security and threat modeling.

### Workspace analytics, BP

2018

*Data analytics*

*London, UK*

- Tasked with learning about employee habits using 3 months of data collected from the workplace.
- Used python and R to discover and visualize patterns in data.

### Quantitative Risk (qRisk), JPMorgan Chase

2018

*Software Developer*

*London, UK*

- Designed and wrote the overnight batch process for the company's risk platform.
- Developed high performance python code to interact with existing APIs and legacy code to run the batch.

### Opesci Group, Imperial College London

2017

*Research Intern*

*London, UK*

- Worked in python to solve reaction diffusion problems using the team's package. Added to the code base and documentation.

### Hoteling

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.

## OTHER PROJECTS

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***Symboard (Python)*** A text-based keyboard creator which allows users to create fully functional, UNIX compatible keyboard files using a concise, user-defined specification.

***MVL (multi valued logic) (Python)*** Wrote a package to implement multi valued logic systems in python.

***FlowMonster (Java, Spring boot)*** Designed and wrote a trading robot to participate in market simulations against other teams.

***An investigation into membership inference attacks on big data (BEng thesis)*** Implemented and optimized a membership inference attack on 2 data sets (taxi and telecoms data) to determine if an individual was sampled to calculate a summary statistic, and analyzed the performance of the attack under different conditions.

***Quest.io (Javascript)*** Made a web application using React Native, mongoDB, and google APIs for tourist groups to plan daily travel routes. Implemented voting, a chat, and a route planning algorithm.

***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 (IoT cryptocurrency) application which finds charging stations and automatically transacts for electricity on the IOTA tangle. Designed in cooperation with the IOTA developers.

**WACC compiler (C)** Designed and built a 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.

## ACHIEVEMENTS

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**2019"FlowMonster" finalist** Won my team's division and progressed to the finals in a trading robot competition.

**2017 IOTA Hack winner** Designed and built the winning design, which finds charging stations and transacts for electricity automatically on the IOTA tangle.

**2016 Built and launched an H-class high-powered rocket** in a team of 4. Apogee was reached at 1.5 km before returning to ground in a state fit for reuse.

**2016 Scored in the 94th percentile in the JLPT N2 exam.**

**2015 Completed the UCL-Japan Young Challenge**, participating in a cultural exchange and Japanese language programs in the UK.

**2014 President and founder of an ISSDC finalist team.** Founded an independent finalist team to the International Space Settlement Design Competition. Elected company president at the national and international finals.

**2014 Grade 8 Cello with distinction**

## SKILLS

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| English | Japanese    | Chinese           | French            | Spanish    | Polish     | German     |
|---------|-------------|-------------------|-------------------|------------|------------|------------|
| Native  | Fluent (C2) | Intermediate (B2) | Intermediate (B1) | Basic (A2) | Basic (A2) | Basic (A2) |

**Core competencies** Agile, Cloud, Data science, Machine learning, Security, Privacy, Project management, Software architecture, First aid

**Expert in** C, Java, Python, UNIX (Linux, macOS), Windows, Spring boot, SQL, Git

**In-depth knowledge of** Haskell, Web development, Django rest framework, Javascript, x86 Assembly, GNU Bison

**Experience with** Azure, AWS, Cloud foundry, React (native), R