

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)

Interests (no particular order): Algorithms (High-performance, high-assurance, financial), AI (Reinforcement learning, deep learning), Security & cryptography, Big data, Quantum computing (algorithms, security).

PROFESSIONAL EXPERIENCE

Quantitative Risk (qRisk), JPMorgan Chase

Jun 2018-Aug 2018

Software Developer

London, UK

- Created 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

May 2017 - Aug 2017

Research Intern

London, UK

- Made tutorials in Jupyter notebooks for solving complex ODEs.
- Worked in python to solve reaction diffusion problems using the team's package and added to the codebase.

JPMorgan Chase

Apr 2017

Spring into Technology

London, UK

- Shadowed employees from software divisions and engaged in group coding projects.

Morgan Stanley

Mar 2017

Spring Insight: Technology

London, UK

- Shadowed tech divisions and learned about the applications of technology in banks.

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.

Queen Elizabeth's School

Sep 2014 - Jun 2016

Volunteer Japanese Teacher

London, UK

- Ran weekly lessons and taught a class of students Japanese to enable them to pass the JLPT N5.
- Organized a letter exchange program with a high school in Tokyo.

BlueCrest Capital Management

Jul 2014

Work Experience

London, UK

- Shadowed employees of the Volatility Arbitrage Group and technology teams.

PROJECTS

Quest.io (Javascript) Created a web application using React Native, mongoDB, and google 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 (IoT cryptocurrency) application which finds charging stations and transacts for electricity automatically 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

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

2016 Constructed 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

LANGUAGES

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

TECHNICAL SKILLS

Software Langs: C, CSS, HTML, Haskell, Java, Javascript, L^AT_EX, Prolog, Python, (no)SQL, Scala, x86 Assembly

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

Typing: 135 wpm (eng), 100 wpm (jpn)