ANDREW J. YOUNG

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EDUCATION

Imperial College London   *2016-2020*
Computer Science and Mathematics (Meng)

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 (Complexity, high-performance, high-assurance, financial), AI (Reinforcement learning, deep learning), Security & cryptography, Big data, Quantum computing (algorithms, security).

PROFESSIONAL EXPERIENCE

Opesci Group, Imperial College London   May 2017 - Aug 2017
Research Intern   *London, UK*

· Made tutorials in jupyter notebooks for solving high-level 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 in Tokyo, developed a program for international students to learn foreign languages, and translating between English, Japanese, and Chinese.

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*

· Worked alongside the Volatility Arbitrage Group and shadowed employees in the software division to understand how their system conducts risk analysis

PROJECTS

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 in Python and node.js.

WACC compiler **(C)** Designed and built a compiler and code-generator in C for the WACC programming language into Arm11.

textitAltair Fintech Project (C) Designed and built a scraping and analysis tool for algorithmically trading cryptocurrencies in a 2-man team.

***Arm11 compiler* (C)** Built a compiler into C for the Arm11 language, and made arm11 code compile on a raspberry pi with this.

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: Native

Japanese: Fluent (N2:94th pctl)

Chinese: Intermediate

French: Basic

German: Basic

TECHNICAL SKILLS

Software Langs: C, Java, Python, Rust, Haskell, HTML, CSS, LaTeX, x86 Assembly, mySQL

Software Tools: MS Office, MacOS, Linux, Git, Windows, Vim, Emacs, Intellij IDEA, jupyter notebook, JSON

Typing: 135 wpm (eng), 150 cpm (jpn)