ANDREW J. YOUNG

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EDUCATION

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)

Interests (in no order): Algorithms (High-performance, high-assurance), Optimization, Security, Cryptography, Data science, Machine learning.

EXPERIENCE

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*
· 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 code base.

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.

PROJECTS

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

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

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

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** on 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

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

Expert in C, Java, Spring boot, LaTeX, Linux, Python, SQL, UNIX, Windows, Git, Jetbrains IDEs, Jupyter notebook, Vim,

In-depth knowledge of CSS, Haskell, Django, Django rest framework, Javascript, Prolog, R, x86 Assembly, PostgreSQL, Scikit-learn Gnu bison,

Experience with Kafka, Azure cloud stack, AWS, Cloud foundry, React (native), Dolphin (python), Devito (python),

Core competencies: Agile methodologies; Data science; Network, web, and application security (SQL, Javascript, PHP), Project management; Software architecture

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

First aid