# ANDREW J. YOUNG

andrewjunyoung1@gmail.com ⋄ bit.ly/ajylinkedin (Please get in touch by email)

## EDUCATION

| **Imperial College London** | **Queen Elizabeth's School, Barnet** |
|---|---|
| Computer Science and Mathematics (BEng) – 2-1 honors | A levels – 4 A*s (highest); GCSE – 14 A*s (highest) |

## EXPERIENCE

**Global Technology Infrastructure, JPMorgan Chase** (intern) 2018 Jun - Sep; (full-time) from 2019 Sep
*Software Developer* *London, UK*
· Led the team's transition to cloud microservices, designed cloud architecture, and wrote the core API package.
· Owned a data collection component for VMWare hardware. Test coverage 30 % → 90 %; runtime 35 times faster
· Built customer facing APIs for describing and evaluating system state. 0 to production API in 3 months.
· Trained in agile; certified in application security and threat modeling.

**The Mix** 2019 Sep – 2020 July
*Software Developer* *London, UK*
· Worked alongside the charity's development team to migrate their APIs to ElasticSearch and AWS lambdas. Improved the relevance of search results and handed over the to The Mix in production.

**Workspace analytics, BP** 2018 Sep - 2019 Jan
*Data analytics* *London, UK*
· Used python, R, and ML to find and visualize patterns in employee data, and present this to clients.

**Opesci Group, Imperial College London** 2017 Jun - Sep
*Research Intern* *London, UK*
· Used math and python to solve complex ODEs (stencil problems) for diffusion, and wrote tutorials in Jupyter.

**Hoteling** 2016 Jun - Sep
*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. Customer reviews of their stay all ≥ 4 stars.

## PROJECTS

***LApps*** Made an Android mobile app for retail and restaurants with automated cloud deployment and back-end.

***Symboard*** Creates installable keyboard layouts from user-defined specs. Supports all EU languages.

***An investigation into membership inference attacks on big data (BEng thesis)*** – *First class honors* Implemented, optimized, and analyzed an attack on user privacy using ML. Reduced run time by 75 %, leaked info about individual taxi locations in data sets of ¿ 30,000 taxis, and added defenses which negate this attack.

***Quest.io*** Made a cross platform app using React Native, mongoDB, and Google APIs for tourist groups to plan daily travel routes. Implemented voting, a chat, and a route planning algorithm.

***Built and launched an H-class high powered rocket***. Apogee was reached at 1.5 km before returning to ground in a state fit for reuse. I keep the rocket in my living room.

## SKILLS

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

**Expert in** Kotlin; Spring boot; Android; Python; Django; DRF; Java; C; Linux; SQL; UNIX; Git; Cloud foundry,

**Experience with** R, Javascript; Mobile, web front end; noSQL; Kafka; Azure cloud stack; AWS; React (native);

**First aid**