

ANDREW J. YOUNG

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EDUCATION

Imperial College London

Computer Science and Mathematics (BEng) – 2-1 honors

Queen Elizabeth's School, Barnet

A-levels: 4 A*s (highest); GCSE: 13 A*s (highest)

EXPERIENCE

Get Instant Inc.. Founder & CTO.

from Nov 2021 in Toronto, ON

- Worked with quick service restaurants to build a solution to cut dropoff in checkout, and to developed a mobile app; app clip; and API.
- Pitched to investors and sold to customers. Onboarded 2 businesses; backed by Entrepreneur First.

Sierra Compute Limited. Founder.

2021 Jan - Nov in London, UK

- Worked with SMEs to replace POS hardware with mobile SAAS solutions.
- Onboarded over 50 businesses; processed payments for 2.
- Reused this same platform to build automation solutions for a client to securely trade crypto.
- Built Android and iOS apps in 1 month each; set up and automated a server with AWS infra (Cognito; Lambdas; Secrets)

JPMorgan Chase, Virtual Infrastructure. Software Developer.

2019 Sep - 2020 Dec in London, UK

- Managed virtual DB infrastructure using DRF. Built an audit tool used for managing cloud resources, reporting, event raising. Also used compilation and parsing, identity, DB management, SQL, python, and cloud.
- Built and managed a consumer facing API. 0 to production API in 3 months.
- Trained in agile; certified in application security and threat modeling.
- Onboarded and managed the work of 2 junior team members.

The Mix. Software Developer.

Sep 2019 - Jun 2020 in London, UK

- Worked in an agile team implementing search functionality across their existing APIs using ElasticSearch and AWS lambdas, triggered by Cloud Watch events.

BP, Workspace analytics. Data Analyst.

2018 Oct - Jan in London, UK

- Given 3 months of employee data, did data analysis and machine learning on this data to present to clients. Used python and R, visualization, cloud (Azure), and SQL.

JPMorgan Chase, Quantitative Risk. Software Developer.

2018 Jun - Sep in London, UK

- Worked on an agile team optimizing batch operations of financial derivatives that calculated risk and price. Written in python, and using Kafka, and database management (Cassandra) with a legacy code base.

Imperial College London, Opesci Group. Research Intern.

2017 Jun - Sep in London, UK

- Used calculus, python and jupyter notebooks to solve complex ODEs, and improve the team's calculation engine.

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.

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 using supervised and unsupervised machine learning. Used 2 data sets (taxi and telecoms data) to determine if an individual was sampled to calculate a summary statistic. 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.

SKILLS

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

Expert in C, Java, Spring boot, L^AT_EX, Linux, Python, SQL, UNIX, Windows, Git, JetBrains IDEs, Jupyter notebook, Vim, Swift, iOS development,

In-depth knowledge of Android development, 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: Software development; Project management; Network, web, and application security (SQL, Javascript, PHP); Data science;

Typing: 142 wpm (eng), 100 wpm (jpn)

First aid