

Aw Young Qingzhuo

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EDUCATION

UNIVERSITY OF EDINBURGH

BSC (HONS) COMPUTER SCIENCE

May 2019 | Edinburgh, UK

First class honours (1:1) expected.

CALIFORNIA INSTITUTE OF TECHNOLOGY

COMPUTER SCIENCE

2018 | Pasadena, US

Exchange year specializing in AI/ML.

ABOUT

LINKS

github.com/veniversum

linkedin.com/in/awyoungqz

veniversum.me (Portfolio)

LANGUAGES

English *Native Language*

Mandarin *Full Professional Proficiency*

SKILLS

PROGRAMMING

Most Experience (5+ years):

Java • Javascript • HTML

CSS (*and preprocessors*)

Some Experience (3+ years):

Python • SQL • Git

Proficient (1+ year):

Haskell • \LaTeX • Typescript

Node.js

Familiar (Working knowledge):

Android • C • .NET

INTERESTS

Machine Learning

Artificial Intelligence

Natural Language Processing

Data Visualization

Web Development

Application Security

Network Security

EXPERIENCE

GOOGLE | SOFTWARE ENGINEERING INTERN

May 2017 - Aug 2017 | Singapore

- Nature of work is confidential, and details cannot be disclosed yet.

OCBC BANK | SOFTWARE ENGINEERING INTERN

June 2016 - Sep 2016 | Singapore

- Developed the first Open Banking API in Asia, built on top of WSO2 middleware stack.
- Overhauled web application security, and doubled the number of existing APIs available.
- Developed Android apps to showcase APIs and realize innovative ideas.

J.P. MORGAN | SPRING INTERN

April 2016 | Glasgow, UK

Work shadowed developers and engineers in the Mobile Center Of Excellence involved in Android and iOS development.

SUMDOG | QA SOFTWARE ENGINEER (Not interested in QA roles)

Feb 2016 - May 2016 | Edinburgh, UK

Play a key role in ensuring quality & user experience for Sumdog, a rapidly growing educational games developer with over 5 million users.

- Write and execute formal tests based on specifications
- Report defects in production system and assist in resolving issues
- Verify code changes and fixes in preparation for deployment

INSTITUTE OF HIGH PERFORMANCE COMPUTING, A*STAR

DATA SCIENCE RESEARCH INTERN

2013 - 2014 | Singapore

- Created batch job to scrape tweets from Twitter based on location and keywords.
- Collected corpus of over 230,000 tweets over 6 months for local companies.
- Implemented and trained machine learning classifiers (MaxEnt, Naive Bayes, SVM).
- Performed parameter optimization and implemented novel emoticon detection to improve classifier accuracy.
- Developed web application using D3js for visualization of analyzed data.

VOLUNTEERING & ORGANIZATIONS

PREWIRED | MENTOR

Feb 2016 - Present | Edinburgh

Volunteer mentor at Prewired Edinburgh, a programming club for under 19s.

COMPUTING & AI SOCIETY (COMPSOC) | VICE PRESIDENT

Mar 2016 - Present | University of Edinburgh

Management of society, sponsorships and hosting talks and other events for over 250 members.

PROJECTS

GITHUB VISUALIZER | [WEBSITE](#) • [GITHUB](#)

Provides an at-a-glance overview of the a GitHub repository and makes exploring large and complex projects a breeze. Visualizes the structure of a repository using a force-directed graph layout.

Built with D3.js. Created at StacsHack 2016. Winner of Bloomberg's Favourite Project. Featured on ProductHunt, LifeHacker, front page of HackerNews and trending on GitHub.

THIS IS SKYNET | [WEBSITE](#) • [GITHUB](#)

Visualizes air traffic in an interactive 3D globe using data scraped from Skyscanner API. Shows frequency and volume of inbound and outbound flights between countries.

Flight routes are represented as links between countries. Inbound routes are shown as blue links, while outbound routes are shown as red links.

Built on three.js during HackLondon 2016.

HACKPROPHECY | [WEBSITE](#) • [GITHUB](#)

A machine learning project that predicts whether a project submitted to a hackathon is a winning project. SVM classifier was trained on data scraped from over 30,000 projects made at 1000+ hackathons on DevPost. Testing revealed accuracy of around 95%, with good precision and almost perfect recall.

MANDELBROT FRACTAL GENERATOR | [GALLERY](#) • [GITHUB](#)

A program written in haskell that draws Mandelbrot fractals. It is capable of generating stunning high resolution renders, both stills and animated, of the Mandelbrot set fractal featuring smooth colorful gradients.

Capable of leveraging multiple cores for rendering, and highly customizable output (see docs).

AWARDS

2017		Edinburgh Award : Office Bearer
2017		Edinburgh Award : Work Experience
2016		Edinburgh Award : Digital Ambassador
2016		Arthur Trevelyan Scholarship in Engineering
2016	winner	HackTheBurgh ARM & Blackrock Prize
2016	winner	HackLondon Domain.com Prize
2016		KAL Informatics Scholarship Award
2016	winner	StacsHack Bloomberg Prize
2016	winner	SmartDataHack Dixons Carphone Prize
2015	1 st	inf1-fp Functional Programming Competition
2015	finalist	Hackathon@SG
2014	2 nd	Geekcamp CTF
2014	international	AP Scholar with Honor award
2014	bronze	Singapore Science and Engineering Fair (SSEF)
2009-2014	national	Singapore-MOE Award (SMA) Scholarship