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# Bryan Beh Jen Yuen

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## Profile

Aspiring Software Engineer with primary interest in automation, data science and backend engineering looking for Summer 2021 internships. I love thinking about what makes great code. My coding philosophy focuses on scalability, reusability and single-responsibility. I find pleasure optimizing code and seeing quantifiable impact.

## Education

### University of Southern California

Aug 2019 - Dec 2021

- Master of Science, Computer Science - GPA: **3.68**
- Classes - Analysis of Algorithms, Programming Systems Design, Operating Systems, Database Systems, Machine Learning (Fall), Probability for Electrical and Computer Engineers (Fall)

### Imperial College London

Oct 2016 - Jun 2019

- Bachelor of Science, Geophysics - GPA: **4.0** (First Class Honours)
- Final Year Thesis - Modeling Plate Motions of Western North America using Python and GMT

## Work Experience

### Tesla | Software Engineer Intern

Jun 2020 - Aug 2020

- Created a flexible, customizable monitoring interface in Go that currently monitors 86 components concurrently across 4 major applications; Code uses inheritance, polymorphism, recursion and concurrency
- Standardized and automated method to collect and track different health metrics — HTTP Monitor, Credential Monitor, Token/Cookie Monitor, SSL Certificate Monitor, SQL Connection & Schema Monitor
- Set up AWS microservice infrastructure and concourse pipeline for devops and integration with ecosystem
- Impact: Reduced normal monitoring workflow by 98%, Captured the status of every application in one centralized dashboard; Set up email subscriptions for health reports and downtime; Designed user-friendly configuration yaml for seamless on-boarding; Educate adoption of new technology via team project talks
- Tech Stack: Go for backend; AWS, Docker for deployment; Postgres, MySQL, MSSQL for SQL DBs; AWS, Concourse, Splunk, Bugsnag, Postman, Datagrip, Confluence, Git, Bitbucket, JIRA for devops

### Marshall Wace | Software Engineer Intern

Jun 2019 - Aug 2019

- In a team of 3, revamped and replaced data-monitoring web app that is used daily by ~200 users worldwide
- Impact: Reduced website loading time by 70%, created new REST API layer, replicated existing features and added 8 new UI/UX features via constant communication with business users
- Tech Stack: Vuejs for client side, C# & .NET-based application for RESTFUL APIs, MSSQL for SQL DBs

### Imperial College London | Research Intern

Jul 2018 - Sep 2018

- A statistical machine learning research project at Data Science institute to assist medical decision-making
- Participated in KDD 2018; Awarded UROP Maths Prize for outstanding research

## Projects

### Weenix Kernel OS

Jan 2020

- A toy Operating System in C that handles processes and threads, a virtual file system and virtual memory
- Supports multithreading and file operations; Manages address space, runs user code and handles system calls
- Worked virtually with a partner for 2 months; Development in Virtual Box, GDB for debugging kernel code

### Fluid Dynamics Modeling Engine

Mar 2019

- A standalone application in C++ that builds models of geophysical fluid systems by finite approximation, performs error analysis and optimizes parameters through inversion methods; Top grade in cohort

## Skills

- Programming Languages: (Proficient) - Python, Go, Java, C | (Familiar) - JavaScript, C++, SQL, R
- Technology: Docker, AWS, Concourse, Node, Vuejs, macOS, Unix, Ubuntu, Git, Virtual Box
- Extracurriculars: ACM, EAGE Event Officer, ICMS Dodgeball Club Captain, Actor MNight 2017, Poetry