
Bryan Beh Jen Yuen

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Profile

Aspiring Software Engineer with primary interest in automation, data and backend engineering looking for Summer 2021 internships. I love thinking about what makes great code (scalable, reusable, adaptive). I'm most excited optimizing individual components in complex systems and building applications from the ground up!

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