



Guangyuan (Charlie) Yang

 ygy.io  yzgyyang  yzgyyang  yzgyyang@outlook.com  +1 (226) 978-7066

Education

University of Waterloo

Candidate for Bachelor of Mathematics
Expected 2021

Skills

Programming: Python, Go, C, C++

Databases: PostgreSQL, Redis, MongoDB

Infrastructure: AWS, Terraform, Saltstack

Experience

Instacart

Toronto, ON

Data Engineering Intern

Sep 2019 - Present

(Python, Go, PostgreSQL), (Git), (AWS, Snowflake, Elasticsearch)

- Building an orchestration service platform for California Consumer Privacy Act (CCPA) compliance
- Maintaining and shaping optimal pipelines and data warehouses alongside data scientists

Autodesk

San Francisco, CA

Infrastructure Engineering Intern

Jan 2019 - Apr 2019

(Python, Redis, PostgreSQL, RabbitMQ), (Git), (AWS, Debian, Salt, Spinnaker)

- Developed a GitHub, Atlassian and Spinnaker integration tool that improved developer efficiency
- Improved infrastructure tools for standard builds, container orchestration and data piping
- Designed and implemented a runtime monitoring system for all production services

Activision

Shanghai, China

Software Development Intern

Sep 2017 - Dec 2017

(Python, Xmlrpc, MySQL, Redis, Elasticsearch), (Git), (CentOS)

- Implemented server-side interfaces and tests for Call of Duty: Online game features
- Diagnosed and optimized core multiplayer features alongside the SRE team
- Developed internal monitoring tools for server log aggregation, analytics and alerts

FreeBSD Foundation

Kitchener, ON

Open Source Software Developer

May 2017 - Aug 2017

(C, Makefile, Shell, Python), (SVN), (FreeBSD)

- Designed, developed and improved FreeBSD's userland and kernel tools
- Implemented several IoT projects on Raspberry Pi and BeagleBone boards running FreeBSD

Open Source

The Coala Static Analyzer Project

Remote

Mentor, Developer

May 2018 - Present

- Mentoring high school students participated in Google Code-in to better contribute to open source
- Working on a dependency management project that allows bootstrapping from UNIX-like systems
- Developing and maintaining Continuous Integration plans for better UNIX compatibility of the project

The FreeBSD Project

Remote

Committer

Sep 2017 - Present

- Leading the development of Electron ports and the Simplified Chinese Documentation Project
- Working with contributors worldwide to act on bug reports, bring in patches and promote FreeBSD

UW Blueprint

Waterloo, ON

Project Developer

May 2017 - Aug 2017

- Developed and supported a cross-platform mobile app for social good