

# Guangyuan (Charlie) Yang

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

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## Education

### University of Waterloo

Candidate for Bachelor of Mathematics  
Expected 2021

## Skills

**Languages:** Python, C, C++, JavaScript

**Platforms:** FreeBSD, Linux, macOS

**Infrastructure:** Docker, Kubernetes, AWS

## Experience

### Instacart

Toronto, ON

Data Engineering Intern

Sep 2019 - Present

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

- Working alongside data scientists to create and maintain optimal data pipeline architecture

### Autodesk

San Francisco, CA

Infrastructure Engineering Intern

Jan 2019 - Apr 2019

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

- 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

- Mentor interested students participated in Google Code-in to better contribute to open source
- Work on a dependency management project that allows bootstrapping from UNIX-like systems
- Develop and maintain Continuous Integration plans for better UNIX compatibility of the project

### The FreeBSD Project

Remote

Committer

Sep 2017 - Present

- Lead the development of Electron ports and the Simplified Chinese Documentation Project
- Work 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