

Guangyuan (Charlie) Yang

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Education

University of Waterloo

Candidate for Bachelor of Mathematics
Expected 2021

Skills

Languages: Python, C, C++, JavaScript

Frameworks: Flask, Jinja2, Bootstrap

Infrastructure: Docker, Kubernetes, UNIX

Experience

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

NAVBLUE, an Airbus Company

Waterloo, ON

Software Developer, DevOps

Sep 2016 - Dec 2016

(Python, Perl, Shell, C), (SVN), (Red Hat Linux, Windows)

- Implemented a centralized release management web application used by Dev and QA teams
- Improved the database automation scripts that reduced updating latency by 98%

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 a cross-platform mobile app for social good