

Guangyuan (Charlie) Yang

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Education

University of Waterloo

Candidate for Bachelor of Mathematics
Expected 2020

Skills

Languages: Python, C, C++, SQL

Systems: Docker, Vagrant, Jails

Platforms: FreeBSD, Linux, macOS

Experience

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, Canada

Open Source Software Developer

May 2017 - Aug 2017

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

- Developed and improved FreeBSD's userland and kernel tools
- Implemented several IoT projects on ARM devices running FreeBSD
- Presented work at BSDCan 2017, an annual international BSD conference

NAVBLUE, an Airbus Company

Waterloo, Canada

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%

Activities

Google Summer of Code

Remote

Student Developer - Coala Project

May 2018 - Present

(Python), (Git), (FreeBSD, Alpine Linux)

- Proposal: Automation of Dependency Management for Coala

The FreeBSD Project

Remote

Committer

Sep 2017 - Present

(C, Makefile, Shell, XML), (SVN, Git), (FreeBSD)

- 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, Canada

Project Developer

May 2017 - Aug 2017

(React Native, Ruby on Rails, PostgreSQL), (Git), (Heroku)

- Learned and used React Native to develop cross-platform mobile apps
- The Water Festival mobile app project has helped teachers and children during the event