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)`
- 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, 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

The Coala Static Analyzer Project   Remote
Mentor, Developer   May 2018 - Present
`(Python, Shell), (Git), (Ubuntu, FreeBSD)`
- 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
`(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