

Guangyuan (Charlie) Yang



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Education

University of Waterloo

Candidate for
Bachelor of Mathematics
Class of 2020

Coursera x UMich

Applied Data Science
Specialization Program
Expected 2018

deeplearning.ai

Deep Learning
Specialization Program
Expected 2018

Courses

Object-Oriented Dev
Logic & Computation
Algorithms Design
Functional Programming

Skills

Languages

Python, C, C++, Shell, SQL

Development Platforms

BSD, Linux, Windows

Development & Deployment

Vagrant, Docker, Puppet, Jails

Version Control & CI/CD

Git, SVN, Atlassian, Jenkins

Life

Executive, Photographer

UW Photography Club
· Teach weekly workshops
· Cover various events on campus

Senior Math Ambassador

UW Faculty of Mathematics
· Reach out to future students
· Train new ambassadors

Experiences

Software Development Intern

Sep 2017 - Dec 2017

Demonware, Activision Blizzard, Shanghai, China

Python | Shell | MySQL | Atlassian | Elastic Search

- Wrote server-side code for the **allocation and provisioning** systems
- Worked with SRE team to diagnose and optimize core **multiplayer** features

Open Source Software Developer

May 2017 - Aug 2017

The FreeBSD Foundation, Kitchener, Canada

C | Shell | Python

- Developed and improved FreeBSD's **userland and kernel tools**
- Presented work at **BSDCan 2017**, an annual international BSD conference

Software Developer

Sep 2016 - Dec 2016

NAVBLUE an Airbus Company, Waterloo, Canada

Shell | Python | Flask-SQLAlchemy | MySQL | Jenkins

- Developed a **centralized**, cross-platform development management system
- Reduced database updating latency by **98%** to provide more timely statistics

Activities

Committer, Ports Maintainer

Sep 2017 - Present

The FreeBSD Project, Worldwide

- Contribute **actively** to FreeBSD and related projects with commit privileges
- Work with developers **worldwide** to bring in patches and act on bug reports

Project Developer

May 2017 - Aug 2017

UW Blueprint, Waterloo, Canada

- Contributing code to build technologies for **nonprofits**
- Team project Water Festival has **helped** teachers and children during the event

Projects

Rental Bot - A bot that handles rental requests

Apr 2017 - Present

Node.js | React | PostgreSQL | Facebook Messenger Platform | Heroku

- Allows customers to place orders and checkout equipment **in conversations**

Platypus Cloud - A private cloud experiment

Sep 2016 - Dec 2016

Python | Flask-SQLAlchemy | JavaScript | QEMU | Guacamole

- Provided each user with ready-to-use virtual machines in a **browser**

Achievements

Microsoft Hacks 2016 Second Prize Winner

Jun 2016

Microsoft Canada

National Olympiad in Informatics First Prize

Dec 2013

Jiangsu Olympiad in Informatics (JSOI) Committee