

# 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 2017

## Skills

### Languages

Python, C, C++, Shell, SQL, Scheme

### Web Frameworks

Flask, Node.js, React, MySQL

### Development Platforms

BSD, Linux, Windows

### Version Control & CI/CD

Git, SVN, Jenkins CI, Travis CI

## Courses

Algorithms, Part I (Coursera)  
Intro to Data Science (Coursera)  
Object-Oriented Dev (CS 246)  
Logic & Computation (CS 245)  
Algorithms Design (CS 136)  
Functional Programming (CS 135)

## 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

### Member, Player

UW Badminton Club

## Experience

### Software Engineering Intern

Sep 2017 - Present

Demonware, Activision Blizzard, Shanghai, China  
C | C++ | Python | Shell | MySQL | Jenkins

- Will be developing core features for the **allocation and provisioning** systems
- Will write client and server-side code to support **multiplayer** features

### Open Source System Software Developer

May 2017 - Aug 2017

The FreeBSD Foundation, Kitchener, Canada  
Shell | C | Python

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

### Project Developer

May 2017 - Present

UW Blueprint, Waterloo, Canada  
React Native | PostgreSQL | Ruby on Rails

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

### Software Developer

Sep 2016 - Dec 2016

NAVBLUE an Airbus Company, Waterloo, Canada  
Bash | Python | Flask-SQLAlchemy | MySQL | SVN | MKS | Jenkins

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

## Projects

### Rental Bot - A bot that handles rental requests

Apr 2017 - Present

Project for UW Photo Club, continued development  
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

Personal Project, discontinued  
Python | Flask-SQLAlchemy | JavaScript | QEMU | Guacamole  
· Provided each user with ready-to-use virtual machines in a **browser**

### Cheat Chat Bot - A chatbot platform for coders

May 2016 - Jul 2016

Microsoft Hackathon 2<sup>nd</sup> Place, team of 3  
CoffeeScript | Python | Microsoft Cognitive Services API | Microsoft Azure  
· Implemented data mining infrastructure for a **self-updating** knowledge base

## Achievements

### University of Waterloo President's Scholarship

Jan 2016

University of Waterloo

### National Olympiad in Informatics First Prize

Dec 2013

Jiangsu Olympiad in Informatics (JSOI) Committee