

# Carl Zhou

## contact

cjzhou@uwaterloo.ca  
github://carlzhou

## programming

x86, Bash, C, C++,  
CSS3, Java, JavaScript,  
MIPS, NodeJS,  
Powershell,  
Python, Racket,  
Scheme & Typescript

## Databases

CouchDB, DB2,  
MySQL, Postgres

## Tools

Apache Httpd, Android,  
AWS, Drupal, Git,  
Jasmine, Jenkins, Jira,  
Magento, Maven,  
Phabricator, Protractor,  
Selenium, SVN, Vagrant,  
Virtualbox, VMWare

## Courses

Algorithms,  
Applied Cryptography,  
Computer Networks,  
Computer Security,  
Functional Programs,  
OOP Software Dev,  
Operating Systems,  
User Interfaces

## Volunteering

Math Ambassador

## Interests

Music Production,  
Poker, P2P Networks,  
Privacy, Security, Sports

## education

Sep 2013 - **Bachelor of Computer Science, Honours Co-op**  
Psychology Minor

University of Waterloo

## experience

- Aug 2016 - **Symphony Commerce** San Francisco, California  
Dec 2016 *QA Engineering*  
Created new and refactored existing end-to-end browser tests using Typescript and Protractor.  
Crafted Bash and Powershell scripts for running end-to-end tests using Selenium and Virtualbox.  
Performed automated testing on Jenkins and manual testing on AWS EC2 instances.
- Jan 2016 - **Nokia (formerly Alcatel-Lucent)** Ottawa, Ontario  
Apr 2016 *Malware Research Assistant*  
Analyzed malware samples and wrote signatures for NIDS (Snort) to detect malicious traffic generated by samples.  
Disassembled and performed static analysis of Android and C# malware code.
- May 2015 - **University of Waterloo** Waterloo, Ontario  
Aug 2015 *Web & Systems Associate*  
Designed and developed a new campus tour registration page using Drupal and SugarCRM.  
Worked with marketing team to design responsive pages for the augmented reality section of booklet using HTML5 and Bootstrap CSS.
- Apr 2014 - **Orchard Labs Inc.** Toronto, Ontario  
Aug 2014 *Web Developer*  
Built backend shipping label generator using PHP, jQuery, MySQL and Canada Post REST API.  
Constructed frontend page for customers to check order details and delivery status of their package.

## projects

- 2017 **Visual Stupid** Terriblehacks  
Multi-language compiler which only accepts images of source codes.
- 2016 **JSketch Mobile** CS349  
Android version of Microsoft Paint.
- 2016 **BB3k** CS246  
Object-Oriented C++ game based on Monopoly for GNU/Linux.