

Chris Zou

3A Computer Engineering
Email: x9zou@uwaterloo.ca
Phone: +1-249-992-0000

Linkedin: <https://ca.linkedin.com/in/chriszoux>
Github: <https://github.com/ChrisXin>
Website: <http://chriszou.me/>

Skills

[**Languages**] Go, Python, Java, C++/C, Bash, JavaScript

[**Operating System**] Linux/Unix, Ubuntu, RHEL7/SLES12, OS X, Android

[**Database**] MongoDB, CouchDB

[**Tools**] Git/SVN, Eclipse, Ansible, AWS, Vim, JIRA, Puppet(like Chef), Matlab

Experience

- ▶ **IBM** [Z Ecosystem Open Source Developer] Markham, ON, Jan. 2016 - Apr. 2016
 - Contributed to Golang by researching and implementing hash/CRC32 s390x patch set using Go and IBM Z vector instructions
 - Designed and implemented CRC32 user space library using C and IBM Z vector instructions to improve the benchmark in MongoDB by 35%
 - Worked on Docker and designed a solution for IBM clients to run interactive GUI apps in Docker container on SUSE12 and RHEL7
 - Ported Apache Flume (a data streaming tool between Server and HDFS written in Java) to LinuxZ
- ▶ **Gelenk** [Full Stack Developer] Toronto, ON, Sept. 2015 - Dec. 2015
 - Designed and developed a SMS system using Go, AngularJS, CouchDB and Twilio API
- ▶ **TELUS** [Programmer Analyst] Mississauga, ON, Apr. 2015 - Aug. 2015
 - Designed a client server POC environment using Puppet with the capacity to scale to 1000s of machines to deploy
 - Developed a monitor program using Shell, Python and Puppet Module scripts to monitor Oracle WebLogic and WebMethods servers for consistency over the cloud
- ▶ **BlackBerry** [Software Engineering Intern] Ottawa, ON, Aug. 2014 - Dec. 2014
 - Participated in a multimedia subsystem project which reduces 15% user waiting time by implementing a network scan algorithm
 - Generated Data report and performed KPI analysis to improve BlackBerry10 software
- ▶ **ShopGurus** [Freelance Web Developer] Toronto, ON, Apr. 2014 - Aug. 2014
 - Implemented custom analytics such as number of user logins and duration of logins
- ▶ **Oriental Financial Firm** [Software Developer] Shanghai, China. Jun. 2013 - Aug. 2013
 - Enhanced robustness of financial software used by major banking corporations in China by fixing database and UI defects

Side Projects

- ▶ **Global Housing Visualizer** March 2016
 - Developed a web app to visualize Global Housing price data based on WebGL and DBpedia datasets

- Used Logistic Regression algorithm to compute correlation between local Housing price data and local GDP data
- **Gracio** September 2015
 - Built a WebApp using Python Flask, MongoDB, javascript and JQuery to connect shoppers at home and shoppers on the way
 - Developed with Facebook API, Google Place API and PayPal API
- **MeTime** January 2015 - April 2015
 - Designed and developed a simple software for Personal Information Management using Java
 - Used GUI programming with real-time features, File I/O, Exception Handling
 - Utilized Binary Search Algorithm and Data Structures such as linked list and Binary Search Tree
- **StockSift** December 2014 - January 2015
 - Designed and implemented a stock analysis tool for Shanghai Stock Exchange software using Java
- **Android LinkMap** May 2014 - August 2014
 - Developed a reliable Android App that reads map information based on sensor data
 - Built with Java, Android Studio and Android APIs, added items to user interface through XML
 - Implemented a pedometer algorithm and path-finding algorithm which can guide a user to a destination, corrected the users wrong turns along the way
- **Distributed File System** ongoing
 - Implementation of a secure client-server application thats resilient to attacks

Education

- **University of Waterloo** September 2013 - May 2018
 - **Candidate for Bachelor of Computer Engineering (GPA: 3.7)**

Awards and Honors

- 2016** Golang contributor, MongoDB contributor
- 2015** Earned A+ at a MIT "Tackling Challenges of Big Data" Professional Development Course
- 2015** Honourable Mention at Google Game Challenge
- 2015** IEEE Student Member
- 2015** Ranked top 10 among 209 ECE students in implementing Kruskal Algorithm
- 2014** Dean's Honours List at University of Waterloo (top 5%)
- 2013** Dean's Honours List at University of Waterloo (top 5%)
- 2013** President's Scholarship at University of Waterloo (top 5%)

Interests

running, swimming, data science, algorithms and new techical skills