

# Brian Chen

SOFTWARE ENGINEER · WEB DEVELOPER

Toronto, Ontario, Canada M1H 2N9

+1 (647) 575 3660 | [brianyxc@gmail.com](mailto:brianyxc@gmail.com) | [www.byxc.me](http://www.byxc.me) | [byxchen](https://github.com/byxchen) | [brianyxc](https://www.linkedin.com/in/brianyxc)

## Qualifications

**Experienced** in object-oriented software development and implementing algorithms/data structures.

**Proficient** in C++, Java, and Python through multiple years of decorated competition programming.

**Fluent** in HTML, CSS, ASP, PHP, SQL, and various JavaScript frameworks through professional experience.

**Competent** in C, UNIX/Linux, Shell/VBScript, and TCP/IP through personal projects and coursework.

## Professional Experience

### University of Toronto

Toronto, Canada

TEACHING ASSISTANT

Fall 2016 - Present

- Taught CSCA08 (Introduction to Computer Science) to a class of over twenty undergraduate students featuring topics such as logic, conditional statements, classes, data structures, functions, scope, and unit testing in the Python language.
- Provided ongoing student aid in tutorial sessions, office hours, and through an interactive tutorial section of my website.

### Ivy Global

Toronto, Canada

SOFTWARE DEVELOPMENT INTERN

Summer 2015

- Led the development of a New SAT test simulation and academic feedback tool by using JavaScript, AJAX, ASP and T-SQL
- Used T-SQL and ASP on a WAMP stack to build the back-end of Ivy Global's college placement and information sites which dynamically predicts and matches students to viable colleges based on SAT scores and academic standing.
- Identified and fixed a particular server bug which had been reoccurring for over two years, improving server uptime by 3%.
- Built redundancies and security measures to prevent malicious SQL injection and cross-origin scripting attacks.

## Relevant Experience

### University of Toronto Computer Science Enrichment Club

Toronto, Canada

FOUNDER & PRESIDENT

Dec. 2015 - Present

- Oversaw activities including event organization, responsibility management and delegation, and promotion/branding.
- Developed and delivered workshops on various topics like Web and Android development, and professional portfolios.
- Taught classes of over a hundred university students concepts such as: data structures, dynamic programming, algorithmic analysis, graph theory, and problem solving paradigms, most of the concepts being taught through the syntax of C++.

### Association for Mathematical and Computer Science Students

Toronto, Canada

COMPUTER SCIENCE REPRESENTATIVE

Sept. 2015 - Present

- Served as a liaison between students and administrative staff to address and resolve over 300 student concerns and ideas.
- Held weekly office hours to explain and consolidate key ideas covered during lecture. Organized and hosted several review seminars for midterms and finals with over four hundred Computer Science students attending.

## Education

### University of Toronto

1265 Military Trail, Toronto, Canada

B.S. IN COMPUTER SCIENCE

Sep. 2015 - 2019 [Expected]

- Maintaining a cum-laude cumulative GPA in the Co-op Honors Specialist in Software Engineering Computer Science stream.
- University courses completed include: Introduction to Computer Science, Software Design, Systems Programming and Software Tools, Introduction to the Theory of Computation, Calculus for Mathematical Sciences, Discrete Math, and Linear Algebra.

## Honors & Awards

2015	<b>1st Place</b> , University of Toronto – Toronto Operations Research Challenge (TORCH)	Toronto, Canada
2015	<b>1st Place</b> , Marc Garneau - High School Advanced Mathematics Contest	Toronto, Canada
2015	<b>Hn. Mention</b> , CFL/Ryerson University - SportsHackWeekend Hackathon	Toronto, Canada
2014	<b>1st Place</b> , TDSB - ECOO Board-wide and Regional Computer Programming Contests	Toronto, Canada
2014	<b>2nd Place</b> , MaRS Discovery District - EdAppHack STEM Educational Hackathon	Toronto, Canada
2014	<b>All Star</b> , American Computer Science League - Global Invitationals Finals	Denver, USA