

jeffreyyxiao

software engineer

education

Sep 2016 - Jun 2021 **Software Engineering** University of Waterloo
Sep 2010 - Jun 2016 **High School** University of Toronto Schools

experience

Nov 2015 - Current **Ivy Global** Toronto, Ontario
Software Intern and Project Lead
Developed a web application that displays SAT scores and statistics for mock exams in real time. Developed a bubblesheet marker using CNNs, machine learning, and custom imaging processing algorithms.

Aug 2014 **H.H. Angus and Associates** North York, Ontario
Intern
Researched floor and room designs for Centre Hospitalier de l'Universite de Montreal. Used CADD software to design an architectural model. Reported any discrepancies between 3D model and client specifications.

Sep 2013 - Current **UTS Programming Club** Toronto, Ontario
President
Created information sheets and lectures on various topics in discrete mathematics. Coached ECOO teams. Cohosted a contest: dmoj.ca/contest/utsopen15

projects

June 2016 **React Chess** Personal
github.com/jeffreyyxiao/React-Chess
Multiplayer chess written in React and Socket.

Feb 2016 **Snatch N' Go** MHacks: Refactor
devpost.com/software/snatchngo
Android app for customers and web app for restaurant managers to facilitate easy payment and order of meals from local food providers. Built with the FEAN stack and Twilio.

Jan 2016 **SwagMusic.js** Hack UofT
github.com/xelendt/swagmusic.js
3D model that dances to music. Built with WebGL and Web Audio API.

Nov 2015 **In The Loop** Hack Western
devpost.com/software/in-the-loop-real-time-news-aggregating-web-app
AngularJS application and Python backend that aggregates current news information based on keywords in live time. Built with Firebase.

Aug 2015 **Resistora** Tech Retreat
devpost.com/software/resistora
Android application that determines the resistance of various resistors using the camera and a custom image analysis algorithm.

contact

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skills

C++, Java, Python, HTML, CSS
PHP, Javascript, jQuery, ASP, Node
Angular, React, SQL, R, MATLAB
Octave, LaTeX, Machine Learning,
Data Structures, Algorithms

certifications

Certified Java SE 6 Programmer
Introduction to Logic by *Princeton*
Algorithms I & II by *Princeton*
Introduction to Python by *MIT & HMC*
Algorithms I & II by *Stanford*
Machine Learning by *Stanford*
R Programming by *Microsoft & JHU*

programs

2015 Shad Valley
2015 Waterloo Unlimited

awards

2016 Bronze at the International Olympiad in Informatics
2016 Gold at the Canadian Computing Olympiad
2015 Silver at the Canadian Computing Olympiad
2015 Platinum Division in USA Computing Olympiad
2015 Duke of Edinburg Gold Standard
2014 Chris Shaw Award in Computer Science
2013 Michael Pincus Award in Mathematics