jeffrey**xiao**

software engineer

education

Sep 2016 - Jun 2021 | **Software Engineering 1A** — University of Waterloo

experience

Nov 2015 - Sep 2016 | **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. Led the development of a bubblesheet marker using convolutional neural networks, 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 - Jun 2016 | **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/jeffrey-xiao/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 for simple food ordering and pickup. 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, Indico and Bing Search.

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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- linkedin.com/in/jeffreyxiao

skills

C, C++, C, Java, Python, HTML, CSS, Javascript, .NET, Node, React, SQL, R, MATLAB, Octave, Machine Learning, Data Structures, Algorithms

certifications

Certified Java SE 6 Programmer
Algorithms I & II by *Princeton*
Algorithms I & II by *Stanford*
Machine Learning by *Stanford*
R Programming by *Microsoft & JHU*

awards

2016 | Bronze at the International Olympiad in Informatics

2016 | Gold at the Canadian Computing Olympiad

2015 | Silver at the Canadian Computing Olympiad

2015 | ECOO Second Place

2015 | Shad Fellow

2015 | Platinum Division in USA Computing Olympiad

2015 | Duke of Edinburg Gold Standard

2014 | Chris Shaw Award in Computer Science