jeffrey**xiao**

software engineer

education

Candidate for Bachelor of Software Engineering   University of Waterloo
Sept 2016 - Present

experience

Ivy Global   **Toronto, Ontario**
Software Intern and Project Lead   Nov 2015 - Sept 2016
Developed an ASP web application that displays SAT scores and statistics for mock exams in real time. Led the development of a bubblesheet marker using .NET, convolutional neural networks, and custom imaging processing algorithms to process blurred, tilted, and imprecise images.

H.H. Angus and Associates   **North York, Ontario**
Intern   Aug 2014
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.

UTS Programming Club   **Toronto, Ontario**
President   Sept 2013 - Jun 2016
Created information sheets and lectures on various topics in discrete mathematics, algorithms, and data structures. Coached ECOO teams. Cohosted a contest: *dmoj.ca/contest/utsopen15*

projects

Emergicare   **Hack the North**
devpost.com/software/emergicare-hsup49   Sept 2016
Android background service that sends optimized GPS and network locations by text to a specified number every time 911 is called. The operator dashboard supports routing of emergency vehicles simulated by the Waterloo bus system. Built with Android, Twilio, Node, React, and Firebase.

React Chess   **Personal**
github.com/jeffrey-xiao/React-Chess   Jun 2016
Multiplayer chess written in React and Socket. Supports different modes (madhouse, bughouse, normal), a timer, a chatroom, and a history of moves.

Snatch N' Go   **MHacks: Refactor**
devpost.com/software/snatchngo   Feb 2016
Android app for customers and web app for restaurant managers for simple food ordering and pickup. Built with the FEAN stack and Twilio.

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

In The Loop   **Hack Western**
github.com/jeffrey-xiao/in-the-loop   Nov 2015
AngularJS application and Python backend that aggregates current news information based on trending Twitter keywords in live time. Built with Firebase, Indico and Bing Search.

Resistora   **Tech Retreat**
devpost.com/software/resistora   Aug 2015
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, 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