

jeffreyyxiao

software engineer

education

Software Engineering 1A

University of Waterloo

Sep 2016 - Jun 2021

experience

Ivy Global

Software Intern and Project Lead

Toronto, Ontario

Nov 2015 - Sep 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 image processing algorithms to process blurred, tilted, and imprecise images.

H.H. Angus and Associates

Intern

North York, Ontario

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

President

Toronto, Ontario

Sep 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

devpost.com/software/emergicare-hsup49

Hack the North

September 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

github.com/jeffrey-xiao/React-Chess

Personal

June 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

devpost.com/software/snatchngo

MHacks: Refactor

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

github.com/xelendt/swagmusic.js

Hack UofT

Jan 2016

3D model that dances to music. Built with WebGL and Web Audio API.

In The Loop

github.com/jeffrey-xiao/in-the-loop

Hack Western

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

devpost.com/software/resistora

Tech Retreat

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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🌐 devpost.com/jeffreyyxiao

in linkedin.com/in/jeffreyyxiao

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 Com-
puting 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 Com-
puter Science