

JEFFREYXIAO

Software Engineer // University of Waterloo
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Education

University of Waterloo

Candidate for Bachelor of Software Engineering
96% Cumulative Average // 4.0 cGPA // Top Decile

Waterloo, Canada

Sept 2016 - Present

Experience

Ivy Global

Software Intern and Project Lead

Toronto, Ontario

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

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.

Projects

Emergicare

devpost.com/software/emergicare-hsup49

Hack the North

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. **Related News:** codx.ca/news/blog-posts/open-data-opens-eyes-at-hack-the-north

React Chess

github.com/jeffrey-xiao/React-Chess

Personal

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

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.

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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🏠 jeffrey-xiao.github.io

🐙 github.com/jeffrey-xiao

🌐 devpost.com/jeffreyxiao

in 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 Fourth at the ACM ICPC East Central North American Regionals
- 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 Platinum Division in USA Computing Olympiad
- 2015 Duke of Edinburg Gold Standard

Interests

Machine Learning // Badminton
Computer Vision // Video Games
Hackathons // Contest Programming
Board Games // Fine Dining