

# 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*

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.

### Toronto, Ontario

Nov 2015 - Sept 2016

### H.H. Angus and Associates

#### *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.

### North York, Ontario

Aug 2014

## Projects

### Emergicare

[devpost.com/software/emergicare-hsup49](https://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](http://codx.ca/news/blog-posts/open-data-opens-eyes-at-hack-the-north)

### React Chess

[github.com/jeffrey-xiao/React-Chess](https://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](https://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](https://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](https://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](https://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](https://jeffrey-xiao.github.io)

🔗 [github.com/jeffrey-xiao](https://github.com/jeffrey-xiao)

🔗 [devpost.com/jeffreyxiao](https://devpost.com/jeffreyxiao)

in [linkedin.com/in/jeffreyxiao](https://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