

# jeffreyyiao

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

### Yelp

#### *Software Intern on Webcore*

Modernized build pipeline and built tooling to migrate services from Google Closure Library to ES6 and Webpack, and from npm to yarn. Scoped out and evaluated solutions for better client-side js error reporting. Implemented and rolled out infrastructure to process over 25 million errors every month to over 20 services. Helped develop infrastructure and tooling to migrate services to React, including server-side rendering of React components.

### San Francisco, California

May 2017 - Sept 2017

### 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 image processing algorithms to process blurred, tilted, and imprecise images.

### Toronto, Ontario

Nov 2015 - Sept 2016

## Projects

### Emergicare

#### *devpost.com/software/emergicare-hsup49*

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)

### Hack the North

Sept 2016

### React Chess

#### *github.com/jeffrey-xiao/React-Chess*

Multiplayer chess written in React and Socket. Supports different modes (madhouse, bughouse, normal), a timer, a chatroom, and a history of moves.

### Personal

Jun 2016

### SwagMusic.js

#### *github.com/xelendt/swagmusic.js*

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

### Hack UofT

Jan 2016

### In The Loop

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

AngularJS application and Python backend that aggregates current news information based on trending Twitter keywords in live time.

### Hack Western

Nov 2015

### Resistora

#### *devpost.com/software/resistora*

Android application that determines the resistance of various resistors using the camera and a custom image analysis algorithm.

### Tech Retreat

Aug 2015

## Contact

🏠 [jeffrey-xiao.github.io](http://jeffrey-xiao.github.io)

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

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

in [linkedin.com/in/jeffreyyiao](https://linkedin.com/in/jeffreyyiao)

## Skills

### Proficient

Java // C // C++ // C# // Python  
JS // ES6 // React // Node  
Algorithms // Data Structures  
Linux

### Prior Experience

Go // Bash // Scala // Rust

### Academically Exposed

R // MATLAB // Octave  
Machine Learning

## 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

2017 First at Greylock Hackfest  
2017 Second at MIT Battlecode  
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 Platinum Division in USA Computing Olympiad