

# jeffreyyxiao

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## Experience

### Yelp

San Francisco, California

*Software Intern on Webcore*

May 2017 – Sep 2017

- 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.

### Ivy Global

Toronto, Ontario

*Software Intern and Project Lead*

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 imaging processing algorithms to process blurred, tilted, and imprecise images.

## Projects

### inSight

Greylock Hackfest

[goo.gl/Qy4TcJ](https://goo.gl/Qy4TcJ)

Aug 2017

- Fully interactive AR headset that uses both machine learning and custom image processing algorithms to display information about the user's point of focus.
- Applied gaze tracking to enable full control via eye movement.
- Used Bing and IoT technology to control home appliances and learn about surroundings in an intuitive way.

### Emergicare

Hack the North

[devpost.com/software/emergicare-hsup49](https://devpost.com/software/emergicare-hsup49)

Sep 2016

- Android background service that sends optimized GPS and network locations by text to a specified number every time 911 is called.
- Built an operator dashboard that support routing of emergency vehicles simulated by the Grand River Transit system.
- Developed with Android, Twilio, Node, React, and Firebase.
- **Related News:** [goo.gl/S5u1vr](https://goo.gl/S5u1vr)

### In The Loop

Hack Western

[github.com/jeffrey-xiao/in-the-loop](https://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 real-time.

### Resistora

Tech Retreat

[devpost.com/software/resistora](https://devpost.com/software/resistora)

Aug 2015

- Android application that uses a custom image analysis algorithm to determine the resistance of various resistors.

## Skills

### Proficient

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

### Prior Experience

Go // Bash // Scala // Rust

### Academically Exposed

R // MATLAB // Octave  
Machine Learning

## 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                  |

## 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*

## Education

### University of Waterloo

**Bachelor of Software Engineering**  
2016-2021 // Waterloo, Canada

- 96% Cumulative Average
- Top Decile
- Dean's Honour List