jeffrey xiao

Software Engineer // University of Waterloo
1-(647)-919-3171 // j39xiao@uwaterloo.ca

Education

University of Waterloo **Waterloo, Canada**
Candidate for Bachelor of Software Engineering Sept 2016 - Present
96% Cumulative Average // 4.0 cGPA // Top Decile

Experience

Yelp **San Francisco, California**
Software Intern on Webcore May 2017 - Sept 2017 (Expected)
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 infrastructure to process over 25 million errors every month and rolled out better client-error reporting solution to over 20 services. Developed tooling to migrate services to React, including server-side rendering of React components.

Ivy Global **Toronto, Ontario**
Software Intern and Project Lead 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.

Projects

Emergicare **Hack the North**
devpost.com/software/emergicare-hsup49 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 **Personal**
github.com/jeffrey-xiao/React-Chess Jun 2016
Multiplayer chess written in React and Socket. Supports different modes (madhouse, bughouse, normal), a timer, a chatroom, and a history of moves.

SwagMusic.js **Hack UofT**
github.com/xelendt/swagmusic.js Jan 2016
3D model that dances to music. Built with WebGL and Web Audio API.

In The Loop **Hack Western**
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 live time.

Resistora **Tech Retreat**
devpost.com/software/resistora Aug 2015
Android application that determines the resistance of various resistors using the camera and a custom image analysis algorithm.

Contact

- jeffrey.xiao@uwaterloo.ca
- jeffrey-xiao.github.io
- github.com/jeffrey-xiao
- devpost.com/jeffreyxiao
- 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