

jeffreyyxiao

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Experience

datacoral Inc

Software Intern

San Francisco, California

Jan 2018 – Apr 2018

- Scoped out, architected, and implemented highly scalable materialized views in Redshift using Kinesis Data Streams, DynamoDB, and Lambda.
- Applied the concept of timelabel tags to represent the state of the underlying data, deterministically update materialized views when all dependencies get updated, and to version schedule and view definition changes.
- Developed critical APIs and migration scripts for monitoring webapp launch.

Yelp

Software Intern on Webcore

San Francisco, California

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.
- Explored 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

Software Intern and Project Lead

Toronto, Ontario

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

Projects

inSight

goo.gl/Qy4TcJ

Greylock Hackfest

Aug 2017

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

Emergicare

devpost.com/software/emergicare-hsup49

Hack the North

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 supports routing of emergency vehicles simulated by the Grand River Transit system.
- Developed with Android, Twilio, Node, React, and Firebase.
- **Related News:** goo.gl/S5u1vr

Skills

Proficient

Java // C // C++ // C# // Rust
Python // JavaScript // React // Node
Git // Linux

Prior Experience

Bash // Go // Scala

Academically Exposed

R // MATLAB // Octave // Assembly

Awards

- First, Greylock Hackfest // 2017
- Second, MIT Battlecode // 2017
- Fourth, ACM ICPC East Central North American Regionals // 2016
- Bronze, International Olympiad in Informatics // 2016
- Gold, Canadian Computing Olympiad // 2016
- Silver, Canadian Computing Olympiad // 2015
- Platinum Division, USA Computing Olympiad // 2015

Certifications

- Certified Java SE 6 Programmer
- Algorithms I & II, *Princeton*
- Algorithms I & II, *Stanford*
- Machine Learning, *Stanford*
- R Programming, *Microsoft & JHU*

Education

University of Waterloo

Bachelor of Software Engineering

2016 – 2021 // Waterloo, Canada

- 93.15% Cumulative Average
- Dean's Honour List (3 Terms)