

EDWARD REN

edward.ren.2013@gmail.com | www.github.com/EdwaRen | www.Edwardren.me | www.linkedin.com/in/edwardren/

SKILLS

Languages JavaScript, Swift, C++, Visual Basic, Python, HTML/CSS, Java, C#, Bash
Tools React.js, Node.js, Express.js, Git, MongoDB

EXPERIENCE

GM Autonomous Car, WATonomous Team – Website Lead (watonomous.ca) **October 2017 – Present**

- Assembled webpages with **React.js** and Bootstrap while maintaining legacy website with **Wordpress**
- Coordinated a team of 4 members in setting up webserver to support individual applications for **400+** expected applicants
- Constructed signup page with **Node.js** and **Express.js** to asynchronously save applications into **MongoDB**
- Automatically synced entries using the **Google Drive API** to upload applicant resumes and database backups

Ciena Corporation, Embedded Software Licensing Summer Intern **August 2016**

- Implemented **Visual Basic** to help automate process to verify packages thus reducing time spent by **75%**
- Algorithmically generated URLs with error handling for **2000+** licenses from **80+ sources**
- Redesigned a section of Ciena's intranet with **HTML/CSS** to show a user-friendly display of weekly reports

PROJECTS

Recycle Can – Creator and Developer (recyclecan.ca) **June 2017 – Present**

- iOS and web navigation tool that guides users to the closest electronic waste recycling center
- Assembled built-in real-time navigation app using **Swift** with over **18000+** users on **iOS** by integrating application using delegates, MapKit, geocoding, and automatic route plotting from geographical data
- Constructed website with **React.js** supporting **13000+** page visits
- Displayed locations on website with **Google Fusion Tables** as a low-cost alternative to mimic selecting data from database queries
- Obtained **10000+** locations by using custom **JavaScript** to mine data from **30+ sources**
- Normalized data of up to **75+** megabyte text files for database schema using **Visual Basic** and **formulae**

Finden - Front End Developer (findengame.com) **October 2017**

- Hack The North (hackathon) scavenger hunt app that classifies objects with IBM Watson computer vision
- Used **React-Native** to display and process real-time object detection and scoring, featured by IBM on Devpost
- Ensured application functioned on **iOS** and **Android** to sync with a common real-time leaderboard

Team Goals – Creator and Developer (GitHub) **July 2017 - August 2017**

- Public goal sharing web app to effectively communicate tasks between a team in real time
- Assembled using **React.js** with backend support powered by **Redux** and authenticated with **Firestore Auth**
- Synchronized website with **Firestore REST API** to update components in real time

HONOURS & AWARDS

- Recycle Can project featured nationally by Metro News (2017)
- University of Waterloo President's scholarship of distinction (2017)
- Subject Award in ICS2U Computer Science (highest mark in the course) (2015)
- The University of Waterloo Euclid, Cayley, and Fermat Math Contest: Top 25% Nationwide (2015, 2016)
- International Baccalaureate Diploma, Bilingual program (2017)

EDUCATION

The University of Waterloo **2017 – April 2022**
Candidate for Bachelor in Software Engineering

Interests Skiing, Rock Climbing, Hiking, Speedcubing, Debate, Competitive Programming, Chess, Trivia