EDWARD REN

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WORK EXPERIENCE

GM/SAE Autonomous Car, WATonomous Team – Website Lead (watonomous.ca)   **October 2017 – Present**
Youngest and returning team lead. Responsible for redesigning WATonomous's official website
- Assembled **webpages** with **React and Bootstrap** while maintaining legacy website with **Wordpress**
- **Lead a team of 5** members and setup <u>webserver</u> to support team applications and **Nodemailer** emailing
- Constructed signup page with **Node and Express** to asynchronously save applications into a **MongoDB** database
- **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 (VB)** to automate complex Excel processes to **reduce time spent by 50%**
- Automated iterative tasks for **thousands of licenses** with algorithmic URL creation and processed with **VB**
- Collaborated to **redesign** a section of Ciena's **internal intranet** for weekly reports using **HTML and CSS**
- **1 of 2 interns** selected out of an applicant pool of over **100 students**

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 with **over 18000 users on iOS** by integrating application using **delegates, MapKit, geocoding**, and automatic route plotting connected to a database
- Constructed website with **React** and **Google Fusion Tables** supporting over **13000 page visits**
- Obtained over **10000 locations** by using **custom JavaScript** to mine data from **dozens of websites**
- Refined raw data of up to 75-megabyte text files for recycling database using **Visual Basic and formulas**

Finden - Front End Developer (findengame.com)   **October 2017**
Augmented reality scavenger hunt app that classifies objects with IBM Watson computer vision API
- Used **React-Native** to display and process real-time object detection and scoring, featured by IBM on Devpost
- Hack The North (hackathon) project that integrates **React camera API** with scores on **real-time leaderboard**

Team Goals – Creator and Developer (GitHub)   **July 2017 - August 2017**
Goal sharing web app to effectively communicate tasks between a team
- Assembled using **React** with backend support powered by **Redux** and authenticated with **Firebase Auth**
- Synchronized website to **push and pull data** from a **Firebase** database and **updating components** in **real time**.

HONOURS & AWARDS

- Recycle Can project featured nationally by **<u>Metro News</u>** (2017)
- University of Waterloo President's scholarship of distinction (Awarded to applicants with 95+ average)
- Subject Award in ICS2U **Computer Science (highest mark in the course**) (2015)
- Ontario Provincial Debating Championships: **Semi Finalist (2016)**
- The University of Waterloo **Euclid, Cayley, and Fermat Math Contest: Top 25%** Nationwide (2015, 2016)
- **International Baccalaureate Diploma**, Bilingual program (2017)

EXTRACURRICULAR INVOLVEMENT

The Canadian Light Source, *Aerospace Research Experience (Shad Valley Program)*   **July 2016**
- Cooperated with researchers to analyze elemental **composition** of a **Boeing 737 turbojet engine**
- **Presented findings** to over **200 students and professors** at the University of Saskatchewan

EDUCATION

The University of Waterloo   **2017 – 2022E**
Candidate for Bachelor in Software Engineering, Co-operative Program

SKILLS AND LANGUAGES

Computer Skills	JavaScript (ES6 fluent), Swift, C++, Java, Visual Basic, C#, Python, HTML, CSS, Bash
Technologies	React, NodeJS, Express, Git, MongoDB
Interests	Skiing, Rock Climbing, Hiking, Speedcubing, Debate, Competitive Programming, Chess, Trivia,