

EDWARD REN

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WORK EXPERIENCE

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

- Initiated the effort and implemented **VBA** to automate complex Excel processes, reducing time spent by 50%
- Automated iterative tasks for **thousands of licenses** by **mining the web** with **VBA** processing in Excel
- 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**

Software Programmer, Freelance **2015 – Present**

- Took the initiative to self-learn multiple programming languages such as **C++, Python, Swift, and C#** for activities such as **computing contests (CCC, DMOPC)**, **app development**, and **game development**

Select Programming Experience

Recycle Can – Founder and Developer **June 2017 – Present**

- 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 location access for **13000 users** using the **Google Maps API** powered by **React**
- Obtained over **10000 locations** by injecting **custom JavaScript** to mine data from **dozens of websites**
- Refined raw data of up to 75 megabyte text files for recycling database using **VBA and formulas**

GM/SAE Autonomous Car (WATonomous Team) – Website Lead and Recruiter **October 2017 – Present**

- Redesigned website using **React and Bootstrap** for the University of Waterloo's autonomous car team
- Provided page for back end recruitment used by over **300 applicants** for three recruitment seasons annually
- Maintained and updated legacy website using **LeanWebTools** while redesigning current webpage

Morsecret Messaging – Creator and Developer **July 2017 - August 2017**

- Full stack iOS developer of **real time messaging** application integrating haptic Morse code communication
- Structured under **Model View Controller (MVC)** and powered by **Firestore authentication and database APIs**

Finden - Front End Developer **September 2017**

- Used **React-Native** for scavenger hunt application using real-time object detection and classification
- Hack The North (hackathon) project that integrates **React camera API** with scores on **online leaderboard**

HONOURS & AWARDS

- Subject Award in ICS2U Computer Science (highest mark in the course) (2015)
- Projects featured by [Metro News](#) and [CANews Ottawa](#) (2017)
- 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 (SHAD) Program) **July 2016**

- 1 of 7 students** from high school selected to participate in the national entrepreneurial enrichment program
- Cooperated with researchers to analyze **elemental composition** of a **Boeing 737 engine**
- Presented findings** to over **200 students and professors** at the University of Saskatchewan

Colonel By Debating Society, Executive Committee Member **2013 – Present**

- Practiced for 5 hours a week after school and competed at various provincial and national tournaments

EDUCATION

The University of Waterloo **2017 – 2022E**

Candidate for Bachelor in Software Engineering, Co-operative Program

SKILLS AND LANGUAGES

Computer Skills	React, Swift, C++, Java, Visual Basic, C#, Python, HTML, CSS, JavaScript (ES6 fluent), Nodejs
Languages	English (Native), French (Fluent, DELF B1 Diploma), Mandarin (Fluent),
Interests	Skiing, Rock Climbing, Hiking, Speedcubing, Debate, Competitive Programming, Chess, Trivia,