

# Edward Ren

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## WORK EXPERIENCE

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

- 1 of 2 interns selected out of an applicant pool of over 100 students
- Spearheaded the effort to use VBA to automate complex Excel processes and increased efficiency by 50%
- Collaborated with colleagues to redesign a section of Ciena's internal intranet using HTML

**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, app development, and game development

### Select Programming Experience

**Recycle Can, an iOS navigation app written in Swift 3.0. Respective website written in JavaScript**

- Integrated application using delegates, MapKit, geocoding, and automatic route plotting connected to a database
- Data Processing of dozens of 50-megabyte raw text files in Microsoft Excel using VBA and formulas
- Integrated a respective website using Google Maps API, coded with JavaScript, HTML, CSS, and Bootstrap

**BlackGold, an indie game written in C#**

- 2D "birds-eye" view game that includes coding animations and instantiating 3D object models
- Self-learned and programmed in the C# language using Unity IDE

**Baseball Game, academic project written in Java**

- Designed, developed, and tested a baseball game that integrates an AI opponent with 5 levels of difficulty
- Learned and programmed in Java using Eclipse IDE

## HONOURS & AWARDS

- Ontario Provincial Debating Championships: Semi Finalist (2016)
- The University of Waterloo Pascal Math Contest: Top 25% Nationwide and School Champion (2014)
- The University of Waterloo Euclid, Cayley, and Fermat Math Contest: Top 25% Nationwide (2015, 2016)
- OCCSB Foreign Languages Public Speaking Contest: 1<sup>st</sup> Place (2014)
- National Lifeguarding Society: NLS, First Aid, and CPR Certified (2015)

## EXTRACURRICULAR INVOLVEMENT

**The Canadian Light Source, Aerospace Research Experience (Shad Valley Program)** Summer 2016

- 1 of 7 students from my high school selected to participate in the national entrepreneurial enrichment program
- Cooperated with researchers to analyze elemental composition of a Boeing 737 turbine 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

**Cross Country Team, Long Distance Runner** 2014 – Present

- Participated as a runner on the Colonel By Cross Country team and competed at the Louis Riel meets each year

## EDUCATION

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

*Bachelor in Software Engineering, Co-operative Program*

**Colonel By Secondary School** 2013 – 2017E

*International Baccalaureate Diploma, Bilingual Program*

- **GPA: 94% | Top 6 Courses: 96% | ACT: 34 | Math SAT II: 800 | Physics SAT II: 770**
- Subject Award Winner for Introduction to Computer Sciences (Highest grade in the course)

## SKILLS AND LANGUAGES

<b>Computer Skills</b>	Microsoft Office, Java, Visual Basic, C++, Swift, C#, Python, HTML, CSS, and Photoshop
<b>Languages</b>	English (Native), Mandarin (Fluent), French (Fluent, DELF B1 Diploma)
<b>Interests</b>	Skiing, Swimming, Rock Climbing, Hiking, Piano, Chess, Trivia, Competitive Programming (C++)