

# Eric Sheen

☎ 416-508-1006

| ✉ eric.sprog@gmail.com

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## Skills

**Languages:** Python, Java, JavaScript, TypeScript, HTML/CSS

**Databases:** MongoDB, SQLite, MySQL, Firebase

**Tools/Frameworks:** Django, Android SDK, ReactJS, Node.js, GraphQL, Express.js, Flask, Git

## Experience

### CheaprEats

August 2020 - November 2020

Software Engineering Intern

Waterloo, ON

- Designed and developed a Virtual Receipt Builder web app to automate the generation of a completely customized receipt utilizing ReactJS
- Collaborated with the DB team to develop a GraphQL API for the MongoDB database to make data available for CheaprEats' mobile and web apps
- Developed **10+** new reusable React components for the CheaprEats React UI Library in TypeScript

### University of Waterloo - AI Lab

July 2020 - September 2020

Research Assistant

Waterloo, ON

- Analyzed and labeled **3000+** documents of scientific literature on COVID-19 to create a search engine for the scientific community
- Increased document relevancy model accuracy by **3%** utilizing S-CAL's multi-agent reinforcement learning algorithm
- Worked under Dr. Gordon V. Cormack in the Cheriton School of Computer Science at the University of Waterloo

### CS Club

Sept 2019 - Present

President

Waterloo, ON

- Organized and taught **40+** students about programming concepts such as OOP, data structures, and algorithms through lectures and live coding demos using Python, JavaScript, and Java
- Prepared weekly lessons and workshops creating websites, scripts, and games for an engaging curriculum for students Grades 9 to 12
- Introduced monthly hackathons to explore a variety of new technologies such as bots, machine learning, and mobile development

## Projects

### studE | Document Summarizer

- Developed a web-based solution for data extraction and summarization for PDFs, documents, images, and URLs using keywords and topics to condense the information for studying
- Deployed using the Django framework in the backend using SQLite to store user accounts and summaries
- Utilized the spaCy and Gensim API for NLP, linguistic annotation, and text summarization and the Apache Tika API and lxml library for parsing data, URL data extraction, and data pre-processing

### Donor-Food-Alert | Hack the North

- Designed and built a food donor app using Java, Google Maps API, and Firebase to handle trades and transactions around the world aimed to reduce organic and industrial waste by 1.3 billion tonnes globally
- Deployed Java application and utilized Firebase to create, store, and retrieve user's request in real-time
- Implemented Google Maps API to pin-point locations of buyers to sellers

## Awards & Achievements

**Coding Club Leadership Award** | Resurrection Catholic Secondary School

June 2019

**1st place out of 40 teams** | FIRST Robotics Ontario District Western Engineering Event

April 2019

## Education

**Resurrection Catholic Secondary School**

Waterloo, ON

GRADE 12 COMPUTER SCIENCE - 98%

Sept. 2018 - Present