

# ERIC LIU

## Computer Science Undergraduate | Seeking Summer 2020 Internships

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## EXPERIENCE

### Technology Analyst & Software Developer

#### UW Finance Association

Jan. 2020 – Present   Waterloo, ON

- Developed and maintained websites and cloud storage solutions using **HTML**, **CSS**, **JavaScript**, **Bootstrap**, **jQuery**, **Google Cloud**
- Delivered crucial online content for 200+ club members and sponsors including **BMO**, **CIBC**, **Scotiabank**, **Sun Life Financial**, **Manulife**, and more

### Software Engineer & Full Stack Web Developer

#### Waterloop

Oct. 2019 – Present   Waterloo, ON

- Worked on the PoD server and desktop user interface to display, send, and receive signals from the server, using **C++**, **web-sockets**, and **embedded systems programming**
- Used **React**, **Redux**, **MongoDB**, **Express**, and **Node** to build a Full-stack MERN app for all members to use as a platform to connect and network

### Software Engineering Intern

#### Synapse Data Solutions

Dec. 2018 – June 2019   Richmond Hill, ON

- Wrote Python web-scraping scripts to increase database entries by **32%** and documented all methodologies in **Linux** environments
- Saved time and money by performing **data cleansing**, **web scraping**, and **data mining** on database entries with **Python**, **MySQL**, and **PHP**
- Clients include **Tencent**, **Alibaba**, **IBM**, **Rogers**, **Dell**, **Cisco**, and many more

### Full Stack Web Developer

#### Youth Nation Alliance

July 2018 – June 2019   Richmond Hill, ON

- Optimized web assets for speed and performance, reducing load times by **85%**
- Increased registered number of users in database to **1000+** leading to a **57%** growth in user engagement
- Designed, implemented and monitored full-stack web app for continuous improvement using **Vue**, **HTML**, **CSS**, **JavaScript**, **PHP**, **Vuetify**, **Socket.io**, **Firebase**, and **Heroku**

## LANGUAGES

C++   C   Java   C#   Python   HTML/CSS/JS   SQL   PHP   Swift

## TECHNOLOGIES

React   Redux   Vue   Bootstrap   jQuery   Flask   Express   Node  
Git   Azure   MongoDB   Heroku   Django   Firebase   Google Cloud

## EDUCATION

### Candidate for Bachelor's of Computer Science

#### University of Waterloo

Sept. 2019 – Present

**Awards:** 1A Term Dean's Honours List, President's Scholarship of Distinction, Retiree's Scholarship

**Extracurriculars:** Waterloop, Computer Science Club, Coffee 'n Code, Devloopers, Data Science Club, Enactus, Finance Association

## PROJECTS

### Table App

#### Restaurant Collaborative Filtering Recommender System

Sept. 2019 – Present

- Web and Android app built using **Django**, **PostgreSQL**, **Kotlin**, **Firebase**, **scikit-learn**, **NLP**, **KNN**, a **CNN**, and **Yelp API**
- Achieved an accuracy of **68.4%** on validation sets using **matrix factorization** and **stochastic gradient descent**

### DevSpace

#### Social Media Platform for Developers

Aug. 2019 – Sept. 2019

- Full-stack MERN app connecting countless of developers together featuring **Redux**
- Users can manage their profiles, post, comment on, and like messages in their feed

### Videofy

#### Video Streaming Platform Inspired by Youtube

Aug. 2019

- Full-stack web app with functionalities identical to **Youtube** built using **React**, **Redux**, **Semantic UI**, **CSS Grid**, and **Youtube API**
- Implemented home feed featuring **infinite scrolling**, **trending videos**, **video searching**

### ImgCleaner

#### Using AI to Clean and Denoise Images

July 2019

- Created **Flask** web app that cleans unclear and messy images using **Custom U-Net Architecture** and **Pytorch**

## AWARDS

### LeetCode

#### Top 3% of Contestants Worldwide

July 2019

### Google Code Jam 2019

#### 95th percentile of Contestants Worldwide in Qualifying Round

April 2019

### USA Computing Olympiad - Platinum

#### Top 20% of Contestants Worldwide

Jan. 2019

### Facebook Hacker Cup 2018

#### Top 20% of Contestants Worldwide in Qualifying Round

July 2018