

Elena Wang

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EDUCATION

University of Toronto, St. George Campus

Sept 2018 – Present (expected: Apr 2022)

Honours BSc. Computer Science & Cognitive Science, Annual GPA: **3.9/4.0 (Dean's List)**

Coursework: Data Structures & Analysis, Software Design, Software Engineering, Software Tools & Systems Programming, Computer Organization, Artificial Intelligence, Operating Systems (current)

EXPERIENCE

Software Developer

Sept 2020 – Present

UofT Blueprint

- Working with Viability (a non-profit) and a team of 12 to develop a **full-stack web app** for **neurodiverse** youths and mentors to schedule interviews, coffee chats, and mentorships

Full Stack Web Developer Volunteer

May 2020 – Aug 2020

Ontario Council of Agencies Serving Immigrants (OCASI)

- Engineered a **Dialogflow chatbot** using **intents** and **Google programmable search** for immigrants to ask questions on a forum with instant responses
- Used **webhooks** on Node.js Express server to embed chatbot onto site for future scalability
- Customized chatbot style to the target site for a unified look using HTML, CSS, and Bootstrap
- Coordinated with 5 teammates and 3 representatives from OCASI through weekly scrum meetings, Slack, Github, and Trello – incorporating the **Kanban** method for **agile** development

PROGRAMMING

- Python
- Javascript
- Java
- C
- HTML / CSS

SKILLS / TOOLS

- React
- Bootstrap
- Node.js / Express
- Flask
- Heroku
- jQuery
- Android Studio
- Git / Github
- Agile
- Kanban / Scrum
- Github Actions

PROJECTS

Video Sharing Social App for Seniors (RBC AmpHacks Hackathon – Top 5)

Oct 2020

React, Bootstrap, CSS, Javascript, Node.js, Express

- Tackled the problem of social isolation in seniors by building a video sharing app to match users by interests
- Produced a uniform **React front-end** with login and menu pages by utilizing components, react-router, and Bootstrap
- Pitched product with 2 teammates to **10+ senior engineers at RBC**, placing in the **top 5** among 50+ participants

COVID-19 Cases Monitor Web App

Jul 2020

HTML, CSS, Bootstrap, Python, Flask

- Built a web app where users upload CSV files of COVID-19 data, apply filters, and return data in text, JSON, or CSV format
 - Programmed a **RESTful Flask API** allowing users to choose data by date and types of cases (e.g., active cases, deaths)
 - Used python pandas library to parse files and query data into other formats according to filters sent to server
- Automated and optimized development by implementing **90% coverage** unit testing with pytest

Android Studio Mobile Game Project

Oct 2019 – Dec 2019

Java, Android Studio

- Developed an infinitely generating Android maze game with **object-oriented programming** and recursive backtracking
- Implemented **builder and facade** patterns, **SOLID principles**, and SurfaceView classes for threads, upholding good design
- Utilized git branches, changelogs, and UML diagrams to collaborate with 5 teammates, receiving a **grade of 90%**

PERSONAL ACHIEVEMENTS

President of the Global Youth Club

Oct 2016 – Jun 2018

- Led weekly meetings focusing on international awareness for **30 – 40 club members**, fostering a global mindset
- Organized multicultural potlucks for **1200 students and staff** with 20 volunteers donating diverse food from their cultures
- Held **tours** every term for international students to transition easily into a new school environment

Languages: English (Native), Mandarin Chinese (Fluent), French (Advanced), Japanese (Intermediate)