



DANNA LIU

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dnaliu.github.io

education

Bachelors of Computer Science (Honours) | Carleton University

- Minor in Statistics and Business
- CGPA 11.84/12.0 (A+)
- Dean's List (2019-2020) and Tracey and Siva Ananmalay Scholarship

09/2019 - 05/2023
Ottawa, ON.

experience

Backend Engineer | VirtualMeet | Visionary Fellow

- Video and chat Feature using Adonis.js

07/2020 - Present
Remote.

Software Engineer Intern | RISE

- Collaborated with developers to identify feature requirements by providing asynchronous loading input through **React Native** to improve app load performance, leading to a faster page load by **17 milliseconds**.
- Developed easy navigation between app screen pages for increased UX experience using **UI Kitten kit**.
- Rendered a custom world map by consuming the **WebGL Earth API** to efficiently visualize interactive data and current event locations.

07/2020 - Present
Remote.

Teaching Assistant | Carleton University School of Computer Science

- Presented discrete structures course concepts and examples through engaging lectures.
- Hosted open-ended discussions with students to ensure thorough understanding of course material, **maximizing student success**.
- Corrected assignments and quiz with **attention to detail** in a timely manner.

05/2020 - Present
Ottawa, ON.

Lifeguard and Swim Instructor | City of Ottawa

- Quickly and assertively enforced safety protocol and kept open communication with other guards on the pool deck to ensure safety of clients.
- Recognized client concerns and established solutions to resolve their problems, leading to an **11% increase** in returning clients due to higher service satisfaction.

08/2017 - Present
Ottawa, ON.

projects

Electronic Store App | Personal Project

- A sales application to sell items from an electronic store.
- Implemented backend system using **Java** and **OOP** to increase efficiency of code and speed of the application.
- Built database of products to simulate sales purchases for optimal testing of the application.
- Implemented a simple and easy to use **UI** by using **JavaFX** for the frontend of the application.

ComConnect | ConUHacks

- An online platform to automatically assign employees to community projects based on availability.
- Implemented a responsive web app using **Javascript**, **Firebase**, and **React.js** for best UX on different devices.
- Implemented a text confirmation system using **Twilio** to alert volunteer associations and volunteers to receive confirmation of a match in the scheduling system.

Spent | SheHacks

- Budgeting app to hold students accountable for their spendings.
- Implemented horizontally scalable backend infrastructure using Google's **Firestore API** to collect user data for better budgeting suggestions.
- Developed richer UI components by using Google's **Dart** and **Flutter framework** for the development of backend and frontend.

community

Vice-President External and Sponsorship - Carleton Artificial Intelligence Society

- Promoted the club among local companies to seek sponsorships for club funding.
- Contacted guest lecturers and professionals for workshops and talks for career growth of club members.
- Increased club recognition and popularity by building the CAIS brand.

01/2020 - Present

Technolgap Computer Science Mentor

- Guided mentees to achieve their short term and long term goals (academic or career)
- Provided tips and suggestions to encourage mentees' best success.

06/2020 - Present

Coding club facilitator - City of Ottawa

- Promoted interest in technology in youth by teaching the use of scratch.
- Developed easy to follow project ideas for youth to develop.

01/2020 - Present

languages

Python

Java

CSS

HTML

Javascript

Dart

tools

Spark AR

SAS

Bootstrap

React.js

Flutter

React Native

UI Kitten

skills

Web development

APIs

Mobile development

Frontend development

Version control (Git)

Object Oriented Programming (OOP)

Runtime Complexity

Agile development

Public Speaking

interests

Backend development

Databases

Artificial intelligence

Fintech

hobbies

Fashion

Drawing

Music

Photography

Swimming

Tennis

