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dnaliu.github.io

education Bachelors (Hons) of Computer Science | Carleton University

Minor in Statistics & Business. Dean's List. Tracey & Siva Ananmalay Scholarship. CGPA 11.84/12.0(A+).

09/2019 - 05/2023 Ottawa, ON.

experience

Software Engineer Intern | RISE

- Front end developper.

Since 07/2020

Remote

Teaching Assistant | Carleton University

- Presented concepts and examples through **engaging lectures** and participation.
- Ensured students understood material, efficacy of tutorials.
- Corrected assignments with **great attentition to detail** in a **timely manner** so assignments can be returned to students promptly for their review and educational improvement.

Since 05/2020

Since 08/2017

Ottawa, ON.

Ottawa, ON.

Lifeguard & Swim Instructor | City of Ottawa

- Quickly and assertively enforced safety and kept **open communication** with other guards on the pool deck.
- Continuously evaluated all swimmers and built progressions of skills appropriate to class level.
- Planned classes in advance, and easily adapted for changes in scheduling.
- Recognized & understood the problems presented by clients, and **proposed numerous solutions** specific to their situation to help find a solution, leading to **increased customer satisfaction** and a **30% increase in patrons** to the facility.
- Creatively creating links between clients' needs and services offered to **maximize participation** numbers in programs offered.

projects

Electronic Store App | application to sell items from an electronic store

- Implemented backend system using Java and object oriented programming.
- Built hypothetical **database** of products to simulate sales purchases.
- Implemented **frontend** of the application using **JavaFX**.

ComConnect | platform to automatically assign employees to community projects for CSR policy

- Implemented the web app using javascript, firebase, and react.js.
- Implemented a feature to send confirmation text message to associations and volunteers using **Twilio**.

Spent | budgeting application

- Implemented **horizontally scalable backend infrastructure** using Google's **Firestore API** to collect user data
- Developed backend and frontend using Google's Dart and Flutter framework.

community

Vice-President External - Carleton Artificial Intelligence Society Vice-President Sponsorship - Carleton Artificial Intelligence Society

01/2020 - 05/2020

Since 05/2020

- Promote the club among local companies and seek sponsorships.
- Build connections with working professionals and businesses.
- Contact guest lecturers and professionals for worjshops and talks for the society.
- Increase club recognition and popularity and build the CAIS brand.

Mentor highschool & freshman girls interested in computer science

Since 06/2020

Since 05/2020

- Guided mentees in terms of school work and university program selection.
- Provided tips and suggestions for mentees best success.
- Provide opportunities for mentees such as internships and learning possibilities.
- Supported mentees in achieving their goals.

Coding club facilitator - City of Ottawa

- Taught youth how to code at city library.
- Promoted interest in technology and taught using scratch.
- Developed project ideas for youth.

