





# ADITI DAGAR

 [aditidagar.ca](https://aditidagar.ca) |  [linkedin.com/in/aditidagar](https://linkedin.com/in/aditidagar) |  [aditidagar](https://aditidagar.github.io) |  647-309-0207

---

## Education

### University of Toronto

Toronto, ON, Canada

*Bachelor of Science*

*Sep. 2018 – May 2022*

- Specialization in Computer Science and minor in Mathematics, 3.52/4.0
- University of Toronto Mississauga Principal's Entrance Award 2018 - \$12,000
- Joseph Alfred Whealey Incourse Scholarship 2019 - \$1,500

---

## Projects

### Findr | JavaScript, React Native, MongoDB, AWS

June – Aug 2020

- Cross-platform mobile application to help students network and find study partners
- Set up a profile matching algorithm on the backend using graph theory
- Extensively tested backend code using Mocha and Chai and performed server load testing using Artillery

### eHealth Application | JavaScript, React, MongoDB

Sep – Dec 2020

- Electronic Health Record web application that captures clinical content
- Clinical notes captured in XML documents conforming to the Structured Data Capture(SDC) schema

### Othello | Java

Jan – April 2020

- Popular two-player board game Othello implemented using Java
- Implemented the MVC design pattern and used JavaFX module for GUI implementation
- Unit testing performed using JUnit

---

## Experience

### Research Assistant

May 2021 – August 2021

*Continuum Robotics Laboratory*

- Project: Contact-aided Catheter Navigation for robotic thrombectomies
- Supervised by Dr. Jessica Burgner-Kahrs and Dr. Quentin Peyron
- Implemented model of continuum robot catheter leveraging contact with vessel walls in C++

### Backend Developer

Sept 2020 – Dec 2020

*Websona*

- Developed cross-platform application to retrieve social media handles using QR scans
- Used TypeScript and Node.js for back-end and AWS for hosting
- Authenticated all server requests using OAuth tokens

### Mathematics Teaching Assistant

Sept 2019 – Present

*Department of Mathematical and Computational Sciences, University of Toronto*

- Courses: Differential calculus, Integral calculus, Discrete Mathematics
- Responsible for running weekly tutorials, holding weekly office hours, invigilating exams and marking tests and assignments

### Advanced Prep Teaching Assistant

Aug – Oct 2020

*Department of Mathematical and Computational Sciences, University of Toronto*

- Worked alongside course coordinator to move course in Integral calculus to online environment
- Facilitated in creating course content for remote teaching

---

## Skills

**Programming:** Python, C, C++, Java, JavaScript, Rackett, Haskell, PHP, HTML

**Developer Tools:** Git, Node.js, MongoDB, AWS, MySQL, Flask, React Native, Flutter, CSS, Bootstrap

**Testing Frameworks:** PyTest, JUnit, Mocha/Chai, Artillery