

# Dhruv Mittal

3A Honors Computer Science Co-op, University of Waterloo  
LinkedIn: d2mittal | Github: dhmi19 | Email: dhruv.mittal@uwaterloo.ca

## SKILLS

---

Languages: Javascript, C++, PHP, C, Typescript, Dart, Kotlin, SQL, Bash

Technologies: Node.js, Express.js, Laravel, Flutter, React, Docker, Kubernetes, MongoDB, Firebase, Jest, GraphQL, Git

## WORK EXPERIENCE

---

**Condos.ca** | Full Stack Developer

May – Aug 2021

- **Integrated 4 live data feeds** to retrieve property records and automated the processes by creating artisan commands
- Abstracted listing feed code to ease the addition of future feeds and **reduce code duplication by 26%**
- Geocoded records with **MySQL** and **MongoDB** databases using Eloquent model relations and **Laravel** query builder
- Built additional features on the admin website and refactored the lead dashboard **to decrease page load time by 40%**

**Year Zero Studios** | Web Development Intern

Jun – Aug 2020

- Developed a **Flutter** mobile application incorporating **40 meditation recordings** using the **Dart** AudioPlayers library
- **Increased content views by 21.7%** by creating dedicated webpages for blogs and podcasts on the company website
- Spearheaded the mindtech.news project, creating the product roadmap, setting progress indicators and deadlines

## PROJECTS

---

**Reservelt** | Typescript, Node.js, Express.js

<https://github.com/dhmi19/reserveUW>

- Containerized microservices app using **Docker** deployments and **Kubernetes** with a **Nginx Ingress load balancer**
- Published a **custom npm package** to share reusable code amongst numerous **express** servers built using **Typescript**
- Facilitated cross-service communication by using the publisher-listener pattern with the **NATS Streaming Service**
- Solved concurrency issues with event publishing using the **mongoose** `updateIfCurrent` plugin to add version to models

**Subleteer** | Node.js, Express.js, MongoDB, React

<https://github.com/dhmi19/subleteer>

- Developed a web platform for students to effortlessly find reliable sublets by filters and location
- Incorporated **the Google Geocoding API** to convert string addresses to geocoordinates and store location data as **GeoJSON** objects on the **MongoDB** database, enabling fast **geospatial queries** on the **Node.js** server
- Implemented user authentication with **bcrypt** and **JWT tokens** including user profile image file uploads

**UW Clubs** | NodeJS, GraphQL, PostgreSQL, Jest, Apollo-Client

[https://github.com/dhmi19/UW\\_Clubs](https://github.com/dhmi19/UW_Clubs)

- Developed a **GraphQL** server, connected to a **PostgreSQL** database, using **Prisma v1** to help students review clubs
- Integrated key features such as GraphQL **pagination**, **sorting** and **fragments** to increase code efficiency and reusability
- Tested the project extensively with the **Apollo client** and **Jest** framework to ensure the code is robust

## LEADERSHIP

---

**Tech+ UW** | Internal Operations Manager, Logistics Coordinator

Jan 2021 - Present

- Responsible for internal communication processes, managing finances, and assisting in planning overall club strategy
- Oversaw a mentorship program with over **120 mentor-mentee pairs** and organized **4 mentorship focused events**

**Microfinance Club** | Co-Founder

Oct 2018 – Mar 2019

- Co-founded a student service club and organized Bangkok's first interschool charity **hackathon** to raise **over \$3000**

## EDUCATION

---

**University of Waterloo** | Candidate for Honors Bachelor of Computer Science (Co-op)

Sept 2019 – May 2024

President's Scholarship of Distinction, 4-time Term Distinction award

Relevant Courses: Object Oriented Programming, Data Structures, Algorithms, Operating Systems, User Interfaces