

# Anmol Brar

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## EDUCATION

**McGill University**, Candidate for Bachelor of Arts in Computer Science      September 2021 – 2025

## EXPERIENCE

**Software Developer**, HackMcGill 🔗      October 2021 – Present

**Mentor**, Hack the North 🔗      September 2021

**Lifeguard**, Corporation of the City of Brampton      January 2020 – August 2021

**Swimming Instructor**, Corporation of the City of Brampton      June 2019 – August 2021

## PROJECTS

**rotation.lol**, Python, Flask, HTML, CSS, JavaScript, SQLite

- Built a web application to display the current champion rotation for the video game League of Legends.
- Retrieved champion data using the **requests** library from the Riot Games API and CommunityDragon API.
- Served retrieved data using **Flask** and **SQLite**.
- Garnered **8,000 unique visitors** in the first month with a retention of **500~** per month afterwards.

**FeatherQueue**, Java, Git, Maven 🔗

- Developed a load balancing and player-queueing system for the video game Minecraft.
- Achieved a **75%** reduction in latency on a server with **2000** players on world launches.
- Sold **25+** licensed copies of the software on a Minecraft add-on marketplace.

**DoorCamera**, Python, OpenCV, facial-recognition, Telegram, Raspberry Pi

- Created and deployed a door camera for my home.
- Implemented facial recognition using **OpenCV** and the **facial-recognition** library.
- Introduced live security notifications to notify the user of who is at the door using Telegram.
- Deployed a **Flask** web server to display a live video feed of the door.

**CourseAid**, Python, Django, JavaScript, HTML, CSS, WebSockets, WebRTC, Redis, SQLite 🔗

- Developed a peer-to-peer video chat web app to pair students in need of academic assistance with teachers.
- Implemented a roulette-style queue system to pair students and teachers using **Redis** and **WebSockets**.
- Used **WebRTC** to implement video chat functionality to allow students to communicate with teachers.

**ONPass**, React Native, TypeScript, Firebase, Google Cloud 🔗

- Created 2 mobile apps to digitize vaccine passports and contact tracing using **React Native** for EngHack 2021.
- Utilized **Google Cloud Vision** to implement **OCR** for scanning and digitization of vaccination receipts.
- Designed the app screens and flow using **Figma** and implemented it using **Magnus UI**.

## SKILLS

### Programming Languages

Java, Python, HTML, CSS, JavaScript, TypeScript, C#, Ruby

### Frameworks and Libraries

Ruby on Rails, Django, Flask, React, ASP.NET Core, Node.JS

### Tooling

Git, Bash, Maven, Gradle, SQL, MongoDB