Anmol Brar

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EDUCATION

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

SKILLS

Programming Languages *(Java, Python, Kotlin, HTML, CSS, JavaScript, TypeScript)*

Databases *(MySQL, SQLite, PostgreSQL, MongoDB)*

Frameworks and Libraries *(Ruby on Rails, Django, Flask, React, Sockets.IO, Node.JS)*

Tooling *(Git, Bash, Maven, Gradle)*

PROJECTS

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** and the **Telegram API**.
- Deployed a **Flask** web server to display a live video feed of the door.

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

CourseAid, *Python, Django, JavaScript, HTML, CSS, WebSockets, WebRTC*
- 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**.
- Developed video chat functionality using **WebRTC**.
- Designed the **UI** for the application.

ONPass, *React Native, TypeScript, Firebase, Google Cloud*
- Participated in EngHack 2021 and created two mobile apps for a vaccine passport and contact tracing system using **Expo** and **React Native** over 36 hours.
- Used **Google Cloud Vision** to implement **OCR** for scanning vaccination receipts.
- Implemented and designed **UI/UX** for both applications.

StockBot, *JavaScript, Discord.JS, FinnHub*
- Created a discord bot that gives the current trading price for a stock.
- Allowed users to fetch the trading price for a stock using the **FinnHub API** through **Discord.JS** commands.
- Deployed and used on a server with over **3000 members**.

EXPERIENCE

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

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