

HIMANSHU AGGARWAL

Software Engineering Student

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HIGHLIGHTS OF QUALIFICATIONS

- Enrolled in level 3 of the 4-year Software Engineering Co-op program
- Developed strong skills in Java, Python, C, JavaScript/TypeScript, HTML, and CSS through various projects
- Created amazing web apps with React, Vue, Angular, Django, and Spring Boot
- Improved time management and teamwork skills through participation in contests and hackathons

EDUCATION

McMaster University Hamilton, ON	<ul style="list-style-type: none">• Bachelor of Engineering, Software Engineering <i>Expected Completion, April 2023</i> Currently maintaining a high average in all my courses and actively working on software projects. Relevant Courses:<ul style="list-style-type: none">• Data Structures and Algorithms• Computer Architecture• Digital Systems and Interfacing• Principles of Programming• Concurrent System Design• Databases
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WORK EXPERIENCE

Preteckt Hamilton, ON	<ul style="list-style-type: none">• Software Engineering Co-op (8 months) <i>January 2021 - August 2021</i><ul style="list-style-type: none">• Worked with React to develop powerful client-facing apps• Worked with Django to power the backend• Wrote SQL queries to fetch data from PostgreSQL and TimescaleDB databases
Cooper Lighting Solutions Mississauga, ON	<ul style="list-style-type: none">• Software Engineering Co-op (4 months) <i>August 2020 - November 2020</i><ul style="list-style-type: none">• Used Robot Framework to test the frontend Angular application• Used Postman requests to test the backend Spring Boot application• Developed a database decryption tool using Angular and Spring Boot
DGN KILTERS Mississauga, ON	<ul style="list-style-type: none">• Sales Associate <i>July 2018- August 2018, May 2019 - July 2019</i><ul style="list-style-type: none">• Assisted with sales administration by balancing daily receipts• Demonstrated excellent communication skills while responding to customers• Helped maintain product inventory

PROJECTS

COVID-19 Dashboard <i>January 2022 - Current</i>	<ul style="list-style-type: none">• Dashboard for visualizing COVID-19 cases<ul style="list-style-type: none">• Developed a NextJS + Prisma + PostgreSQL web app for visualizing COVID-19 cases• Used TailwindCSS to style the pages• Used charting libraries like Echarts and ApexCharts to create beautiful visualizations
aslX <i>March 6-7, 2021</i>	<ul style="list-style-type: none">• DeltaHacks 7 Project<ul style="list-style-type: none">• Developed a web app to detect ASL (American Sign Language) gestures using the MediaPipe Hands API• Configured the app to work with OBS to show subtitles on video calls

FinalAnswer

July 2020 - August 2020

• Personal Project

- Developed a ReactJS + Bootstrap 4 web application to show automated, custom solutions to students' questions with user-fillable input fields
- Used the MathJax library to visualize mathematical equations in the solutions

VisionX

January 25-26, 2020

• DeltaHacks 6 Project

- Led a team of 4 to develop a device that would help the visually impaired
- Implemented the Tensorflow framework to recognize objects and Google Assistant to vocalize the names of the objects in the view
- Incorporated ultrasonic sensors and 3D spatial sound effects to alert the user of a nearby object with a directed sound from the location of the object

AutoEnroll for McMaster University

Summer 2019

• Summer Project

- Independently developed a chrome extension that enrolls McMaster University students into their preferred courses
- Trained myself in HTML and CSS to make the user-interface more appealing

Integrated Door Lock System

Fall 2018

• ENG 1C03 Project

- Worked in a team of 5 to develop a door unlocking system for the differently abled
- Developed a device with a fingerprint sensor and apps for Android and iOS with biometric security allowing for a more secure way of unlocking the door
- Competed against 900 students and achieved the "Most Innovative Project" award

QuadSense

Summer 2018

• Science Fair Project

- With a partner, developed a car safety system to warn users of cars in the blind spot
- Won the Bronze medal in Peel Regional Science Fair 2018 and represented the Region of Peel at the Canada Wide Science Fair 2018 as a Finalist

SKILLS

Programming and Web Frameworks

- Python
- HTML
- ReactJS
- Django
- Java
- CSS/SASS
- NextJS
- Spring Boot
- GoLang
- JavaScript
- Vue
- PostgreSQL
- C
- TypeScript
- Angular
- IBM Db2
- Bash
- TimescaleDB

CSS Frameworks

- TailwindCSS
- Bootstrap
- Bulma

Other

- React Query
- Redux
- Prisma

Hardware

- Arduino
- Raspberry Pi

VOLUNTEERING EXPERIENCE

Kin's Club

Brampton, ON

• Summer Camp Assistant

July 2017

- Worked with a team of volunteers to arrange games and activities for kids in a summer camp
- Helped in keeping children disciplined and organized throughout the various activities setup in the camp

Kin's Club

Brampton, ON

• Weekly Assistant

October 2016 – February 2017

- Organized fun games and activities for kids along with educational story-times
- Helped in preparing meals for kids

Camp I Can

Brampton, ON

• Math and Science Tutor

July 2015 – August 2015

- Assisted Grade 9 and 10 students with various math and science problems
- Worked as a leader to manage and control fun educational games and activities
- Gained valuable experience in teaching mathematical and scientific concepts to students