

HIMANSHU AGGARWAL

Software Engineering Student

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HIGHLIGHTS OF QUALIFICATIONS

- Enrolled in level 4 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

Bachelor of Engineering, Software Engineering

Expected Completion, December 2023

Currently maintaining a high average in all my courses and actively working on software projects.

Relevant Courses:

- Data Structures and Algorithms
- Principles of Programming
- Computer Architecture
- Concurrent System Design
- Digital Systems and Interfacing
- Databases

WORK EXPERIENCE

GBatteries
Ottawa, ON

Full Stack Developer Co-op (4 months)

May 2022 - August 2022

- Worked with React/Flask to create data visualizations
- Worked with Jupyter notebooks to create tools for visual map generation
- Configured a Kubernetes cluster to host the React/Flask application.

Preteckt
Hamilton, ON

Software Engineering Co-op (8 months)

January 2021 - August 2021

- 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

Software Engineering Co-op (4 months)

August 2020 - November 2020

- 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

PROJECTS

Sayyara

September 2022 - April 2023

Full-Stack PWA for Mechanics (Capstone Project)

- Developed a NextJS + Django + PostgreSQL web PWA for mechanics
- Added customer, employee and shop owner views with different permissions
- Used Formik to handle forms and React Query for data fetching

CryptoMetrics

January 2022 - April 2022

Dashboard for viewing, analyzing, and filtering cryptocurrencies effortlessly

- Developed a NextJS app for viewing, analysis, and filtering of cryptocurrencies
- Leveraged CoinGecko API to retrieve data and implemented client-side filtering
- Incorporated Apache Echarts and ApexCharts libraries to create data visualizations

COVID-19 Dashboard

January 2022 - Current

Dashboard for visualizing COVID-19 cases

- 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

March 6-7, 2021

DeltaHacks 7 Project

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

CSS Frameworks

- TailwindCSS
- Bootstrap
- Bulma

Other

- React Query
- Redux
- Prisma

Hardware

- Arduino
- Raspberry Pi

VOLUNTEERING EXPERIENCE

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