

# Vatsa Shah

Montréal, Canada | [LinkedIn](#) | [Github](#) | [Email](#)

## EDUCATION

### Concordia University

Bachelor of Computer Science, General Program Co-Op

Montréal, Canada

September 2019 - Present

- Relevant Coursework: Data Structures & Algorithm, Databases, Operating Systems, Object Oriented Programming, Web Development, AI, ML, Computer Vision and Information Retrieval & Web Search.

## WORK EXPERIENCE

### Microsoft

Software Developer Intern

Montréal, Canada

May 2023 - August 2023

- OpenAI:
  - Optimized the GPT-4 plugins using Langchain to allow the bot to automatically select the appropriate tool in response to user inputs.
- NLU Tool:
  - Implemented the entire UI of the app.
  - Designed and implemented dynamic filtering and sorting functionalities for the results page and developed system that automatically changes filtering options according to the user inputted file.
  - Wrote a Python script that allowed users to download the results as a .trsX file from a .xlsx file.
  - Reduced project runtime by 65% through the implementation of Singleton threading.

### UNO Platform

Software Developer Intern

Montréal, Canada

Jan 2023 - April 2023

- Led the team of interns to build TubePlayer - a fully functional YouTube app rebuilt on Xamarin and optimized for performance and user experience.
- Developed app's video playback feature, including integration with the YouTube Data API to retrieve and display videos.
- Implemented the search functionality with filters for video type, upload date, and duration. And also implemented the loading, error, and empty search pages.

### Nventive

Mobile App Developer Intern

Montréal, Canada

May 2022 - August 2022

- Contributed to the development of the MoreRewards cross-platform (iOS, Android, UWP) mobile application in .NET (C#) and XAML (Xamarin).
- Designed and created the Home Page, the Offers Page and the Maps.
- Implemented custom animations and transitions to flex containers and forms.

### HackConcordia

President

Montréal, Canada

February 2022 - January 2023

- Led a team of 35 students to organize the 2nd largest hackathon of Canada - [ConUHacks VII](#), with 800+ Participants from 97 universities/schools, 149 Projects, 50+ Judges and 28 Sponsors.
- Generated revenue of \$100,000+ from Sponsorships and expanded the Social Media audience by 225% over the span of 1 year.
- Oversaw executive leadership, employee training, media relations, and implemented ambitious business strategies to drive growth, productivity and financial stability of the organization.

### Event Desk

Full Stack Web Developer Intern

Montréal, Canada

January 2022 - May 2022

- Built localized cross-platform Web application for leasing [event spaces](#) by using the MERN Stack (MongoDB, Express, ReactJS, NodeJS and GraphQL) and React-Native.
- Designed and created the User Login page and the Venue Management page.
- Built and integrated GraphQL based API's and NodeJS microservices.
- Maintained and improved the DevOps pipelines to build and deploy the applications to AWS Cloud.

## PROJECTS

[Emotion Sentiment Analysis](#)  
[Spotify Explicitness Predictor](#)  
[BeastFit](#)

[Web Crawler](#)  
[Rush Hour Game](#)  
[Dropout in Neural Networks](#)

[HFEST Application](#)  
[ETERNITY](#)  
[Movie App](#)

## PROGRAMMING SKILLS

**Languages:** C, C#, Java, Python, TypeScript, HTML, XAML, CSS, PHP

**Frameworks/Databases/Technologies:** .NET, React, React-Native, NodeJS, Express, MySQL, MongoDB, GraphQL

**Technologies:** Latex, Git, Heroku, Netlify, Postman.