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EDUCATION

Waterloo, ON University of Waterloo Bachelor of Mathematics

Sep. 2022 - July. 2027

Unionville High School (UHS)

Recipient of academic honour roll and English subject award in Grade 12

Sep. 2018 - July. 2022

EXPERIENCE

Executive

UHS Computer Club

Markham, ON

Markham, ON

Sep 2021 - June 2022

• Prepared and taught topics in algorithm field

- Prepared students for CCC (Canadian Computing Competition)
- o 7 students from the club achieved at least top 25% in the contest

Contests

Math/Computing Jan 2021 - June 2022

- UCC Coding Competition(Spring Coding Bowl) 2021 20th place & Perfect Score
- o 2022 Canadian Computing Competition Top 4% / National Honour Roll
- o 2021 Canadian Senior Mathematic Contest Top 1% / National Honour Roll
- o 2021 Hypatia Math Contest Top 1.8% / National Honour Roll
- o 2021 Euclid Math Contest Top 2.5% / National Honour Roll
- 2021 Fermat Math Contest Top 5%

PROJECTS

Intelligent Promotion Collector

- The app automates the process of user scrolling through the website to find good deals. It promotes user with clearance items on Walmart based on user's preferences
- Integrated the microservice architecture design pattern
- Developed a Node.js web scraper that fetches promotion items from Walmart
- Constructed a Spring Boot application that accepts promotions from Node is app and stores them in DB. It exposes Rest API for web and mobile app to query promotions
- Programmed an Android app with Kotlin and XML that gives user a view of the promotion items. User can select their preference and the app will highlight items according to their preference
- Implemented a Spring Boot application that validates user login info and performs requested update on user's preference
- Created a web application that allows users to do everything that's available on the mobile app.
- Language/Framework: Spring Boot, Node.js, Kotlin, JavaScript

Template Editor

- Developed editor UI that allows user to upload or choose existing template to edit.
- Editor UI Supports drag & drop of text fields and images using Angular
- Designed text/image elements that are easy to manipulate (delete, drag, upload, rename, etc).
- Implemented a Spring Boot web server that supports CRUD of template.
- Language/Framework: Angular, Spring Boot

Travelling Guide

- Integrated CameraX's Image/Video preview and capture feature
- When the user uses the camera feature, the app will suggest a nearby attraction/location (by consuming Google Map Platform's Nearby Search API) and asks whether the user wants to learn more about it.
- Developed a Node.js web server that accepts the longitude, latitude, and location name from mobile app for searching.
- The user would be able to see all the relevant information regarding attractions they are visiting and want to learn more.
- Designed an algorithm that does a precise search (using the received location data) on Wikipedia and returns relevant information.
- Language/Framework: Kotlin, Node.js

Website Chatbot

- Trained a neural network implemented with Python that is capable of answering simple queries
- Created a Flask web server that accepts user inquiries and gives user a proper response based on neural network
- Developed an UI that can be easily integrated into other websites to allow live conversation between user & bot
- Language/Framework: Python, Flask, JavaScript, HTML/CSS

Programming Skills

Programming Languages: Java, Python, JavaScript, HTML/CSS, Kotlin, TypeScript

Frameworks: Spring Boot, Node.js, Flask, Angular