Tommy Pang

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EDUCATION

University Of Waterloo - Mathematics   Markham, Ontario
September 2022 – June 2027

Recipient of President's Scholarship of Distinction at University of Waterloo

Unionville High School (UHS)   Markham, Ontario
September 2022 – June 2027

Received honour roll for outstanding academic performance, over 4 years of high school

Received English Subject Award in grade 12 (a total of ten grade 12 recipients)

EXPERIENCE

UHS Computer Club   September 2021 – June 2022
Executive   *Unionville, ON*

- Prepared and taught topics in algorithm field
- Prepared students for CCC (Canadian Computing Competition)
- 7 students from the club achieved at least top 25% in the contest

Contests

- UCC Coding Competition(Spring Coding Bowl) 2021 - 20th place Perfect Score
- 2022 Canadian Computing Competition - 149th place (Top 4%)
- CodeChef AlgoManiac - Code For Future Division 2 - Global Rank: 72
- LeetCode Weekly Contest 292 - Global Rank: 188
- LeetCode Biweekly Contest 75 - Global Rank: 271
- 2021 Canadian Senior Mathematic Contest - Top 1% / National Honour Roll
- 2021 Hypatia Math Contest - Top 1.8% / National Honour Roll
- 2021 Euclid Math Contest - Top 2.5% / National Honour Roll
- 2021 Fermat Math Contest - Top 5%
- Full contest history available on personal website

Publications On Medium   September 2021 – Present

- Static Web Page Scraping With Node.js - Sep 26, 2021
- Dynamic Web Page Scraping with Node.js and Puppeteer - Oct 27, 2021
- A Simple Calculator Implemented With JavaScript That Evaluates String Expressions - Oct 23, 2021
- Available at personal website

Udemy Courses   March 2022 – Present

- Full Stack: Angular and Java Spring Boot E-Commerce Website
- QC101 Quantum Computing Quantum Physics for Beginners

PROJECTS

Intelligent Promotion Collector | *Java, Spring Boot, Node.js, Kotlin, JavaScript*   May 2021 – April 2022
- Integrated the microservice architecture design pattern
- Created a Node.js web scraper that fetches promotion items from Walmart
- Created a Spring Boot application that accepts promotions from Node.js app and stores them in DB. It exposes Rest API for web and mobile app to query promotions
- Created 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
- Created 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. Session management (cookies) is used to keep user logged in

Template Editor | *Angular, Spring Boot*   August 2022 – September 2022
- 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).
- Developed a Spring Boot web server that supports CRUD of template.

Travelling Guide | *Kotlin, Android Studio, Node.js*   July 2022 – September 2022
- 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.
- Designed an algorithm that does a precise search (using the received location data) on Wikipedia and returns relevant information.
- The user would be able to see all the relevant information regarding attractions they are visiting and want to learn more.

Enterprise Email Middleware | *Java, Spring Boot, JavaScript, HTML*   November 2021 – November 2021
- Created a web app that allows user to compose and send emails online
- Developed Spring Boot rest API to validate the login info and send the email using SMTP
- APP is effective in advertisement automation

SKILLS

Programming Languages: Java, Python, SQL (Postgres), JavaScript, HTML/CSS, Kotlin, TypeScript
Frameworks: Spring Boot, Node.js, Flask, Angular
Developer Tools: Git, IntelliJ, Visual Studio Code, Eclipse, Android Studio
Languages: English (Native), Mandarin (Native)