Tommy Pang

https://tommypang.github.io/PersonalWebsite

Email : tommypang04@gmail.com
Mobile : +1-226-899-7558

EDUCATION

University of Waterloo — Waterloo, ON
Bachelor of Mathematics — *Sep. 2022 - July. 2027*

- Recipient of President's Scholarship of Distinction
- Activities: CS Club, Data Science Club

PROJECTS

Full Stack Intelligent Promotion Collector | *Spring Boot, Node.js, Kotlin, JavaScript*

- Automates the action of searching for good deals by feeding users with promotional items based on user's preference
- Integrated the Microservices design pattern
- Developed a Node.js web scraper that controls a headless browser to fetch promotional items over the Internet
- Constructed a Spring Boot application that performs CRUD of the promotional items in PostgreSQL
- Implemented a Spring Boot application that validates user login and performs update on user preference
- Programmed an Android app with Kotlin and XML that allows users to update preferences and the app will display promotional items fetched from the Backend for the user
- Created a web application that supports the same features as the mobile app

Full Stack Template Editor | *Angular, Spring Boot*

- Developed editor UI using Angular that allows users to upload or choose existing image templates to edit.
- Editor UI allows users to easily manipulate (delete, drag, upload, rename...) the text field, images, etc.
- Implemented a Spring Boot web server that supports CRUD of user templates

Website Chatbot | *Python, Flask, JavaScript*

- Designed & trained a multi-layer Neural Network that accepts Bag-of-words and produces an appropriate output
- Made a Flask web server that accepts and feeds user inquiries to the neural network, then returns the output
- Developed a Web UI that can be easily integrated into websites, allowing live conversation between user & bot

EXPERIENCE

Unionville HS CS Club — Markham, ON
Executive — *Sep 2021 - June 2022*

- Prepared and taught topics in the algorithm field (e.g. Graph Theory, Dynamic Programming)
- Mentored 7 students from the club to achieve top 10% in the Canadian Computing Competition

Contests
Math/Computing — *Jan 2021 - Present*

- LeetCode Contests - 1.33% across the site among 326704 Participants
- 2022 Canadian Computing Competition - Top 4% / National Honour Roll
- CodeChef AlgoManiac: Code For Future - Top 5%
- 2022 Google Kick Start Round B - Top 10%
- 2022 Google Hash Code (Team) - Top 20%
- 2021 Canadian Senior Mathematic Contest - Top 1% / National Honour Roll
- 2021 Euclid Math Contest - Top 2.5% / National Honour Roll

PROGRAMMING SKILLS

Programming Languages: Java, Python, JavaScript, HTML/CSS, Kotlin, TypeScript
Frameworks: Spring Boot, Angular, Node.js, Flask