

Kush Patel

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EDUCATION

Toronto Metropolitan University (GPA: 4.00)

Toronto, ON

Bachelor of Science in Computer Science

Sep. 2022 – Present

- **Dean's List:** 2022, 2023, 2024
- **Relevant Coursework:** Data Structures & Algorithms, UNIX, C and C++, Linear Algebra, Java

EXPERIENCE

Software Developer Intern

Apr. 2024 – Present

Kijiji Canada

Toronto, ON

- Assisted in the development of Immediate Saved Search as a new CRM feature; using Elasticsearch Percolation and Java to increase CTR and user retention for millions of users who save searches
- Helped maintain Kijiji's back-end system with 30+ enhancements and bug fixes using Java, Drop-wizard, XML, Docker, GitHub Actions, Google Cloud, Liquibase, Kafka and Spring
- Increased listing quality for Powerboats and Motorboats by adding 15 additional attributes using Java, Jenkins, and Google cloud services and for the millions of users posting in the category

Programming Instructor

Oct. 2023 – Apr. 2024

SciXchange

Toronto, ON

- Facilitated and taught 30 grade 11 students about Arduino robotics; helped program a robot in C++ to prevent it from hitting walls
- Collaborated with a small team to teach virtual high school classes of 90 students on coding in Python and JavaScript, where students coded a micro-bit controller to react to their voice or light up

IT Technician

Aug. 2021 – May. 2024

Empire Capital

Markham, ON

- Provided onsite support by installing new computers, printers, and various hardware/peripherals
- Performed system health checks and mitigation to meet software and security standards including encryption, patching, and backup

Math Instructor

May 2023, Jan. 2024

Mathnasium

Toronto, ON

- Tutor 50 High School Students with math concepts such as derivatives, limits, rational and reciprocal functions, degrees of polynomials, and trigonometry to increase their mathematical capabilities

PROJECTS

EcoDex | *Python, Flask, JavaScript, NextJS, MongoDB, OpenAI API, Imgur API*

Aug. 2024 – Present

- Developed a full-stack, mobile-focused web app using Flask serving a REST API with NextJS as the frontend
- Implemented OpenAI's ChatGPT API for Image Recognition and Text Generation to categorize types of garbage fed from the camera, helping educate users on waste management
- Saved previously caught waste on MongoDB, using Imgur's image API to store the image URL's

ClubHub | *Java, React, Express, MongoDB*

Apr. 2024 – Present

- A full-stack club management platform designed to streamline club and group management for schools, universities and the community, designed using a ReactJS frontend, and a ExpressJS backend
- Developed full feature authentication using JSON Web Tokens (JWT) and BCrypt

TextBased-Audio | *Java*

Apr. 2023 – Jan. 2024

- A Java-based text music player that uses Maps, Inheritance and File I/O to first import then play, delete, view, search and modify audio content

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript, Bash, HTML/CSS, SQL, Lisp, Haskell, Elixir

Frameworks: Angular, Ruby on Rails, Django, React, NextJS, Flask, Dropwizard, Spring, Spring Boot, Express

Developer Tools: Git, GitHub, GitHub Actions, Docker, Kubernetes, Vim, IntelliJ, VSCode, Google Cloud (GCP), Jenkins, JIRA, Adobe Suite, Liquibase

Libraries: PyTorch, Elastic Search, MySQL