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

CyberSecurity Research Assistant — May. 2025 – Present
Cybersecurity Research Lab — *Toronto, ON*
- Led the creation of App Store, Github, TrustPilot, Google News, and Patent Library scraper scripts using Python and Jupyter Notebook to aid researchers and professors in their data formulation
- Updated core Python scripts for patent and news collection through rigorous testing to help researchers in their data collection processes

Software Developer Intern — Apr. 2024 – April. 2025
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*
- 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

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 | *JavaScript, 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