Fareen Khan

Canadian Citizen • ON, Canada • kfareen34@gmail.com • 647-879-3714 • linkedin.com/in/fareenkhan

Skills

Languages — Java, JavaScript, HTML/CSS, C, C++, SwiftUI, Swift, Python, VHDL, LaTeX, MATLAB, Oracle SQL

Technologies — ReactNative, ReactJS, NextJS, Expo, JavaFX, JQuery, Node.js, Git, VSCode, Google Maps SDK, MSC GeoMet API

Education

Toronto Metropolitan University
Bachelor of Engineering in Software Engineering
Graduating May 2025
- Achievements: 4.13/4.33 GPA, Deans List 2020, 2021

Professional Experience

Environment Climate Change Canada — May 2023 – Aug 2024
Software Engineer
- Developed and maintained an iOS weather application used by over 300,000 users
- Designed a radar feature to display precipitation within a 3-hour time frame using **Google Maps SDK, and MSC GeoMet API**
- Created a weather timeline and a MetNotes center for detailed weather information
- Improved and maintained features for better user experience and accessibility.

Elections Ontario — May 2022 – Jun 2022
Recruitment Officer
- Recruited poll officials for the 2022 provincial election, assigned positions, work locations, training courses
- Used **Election Management System (EMS)** software to manage all applicants, poll officials, and candidates
- Worked alongside the Technical Support Officer to troubleshoot problems and **maintain network systems** around the returning office
- Worked alongside the Financial Officer to distribute payroll on a biweekly basis

AVOLTA — Jun 2022 – Sep 2022
Software Engineering Intern
- Helped develop a **front-end prototype** mobile application for users to login and purchase a service
- Created 4-5 user interfaces using **JavaScript, ReactNative, Expo**
- Taught coworkers how to connect to the **GitLab repository**, push, pull, and branch using **CLI commands**

Projects

Recipe Finder ⧉
NextJS
- Developed a dynamic web application using **Next.js** that enables users to discover recipes based on available ingredients or recipe titles
- Optimized search functionality, enabling real-time filtering of thousands of recipes from a large JSON dataset
- Integrated modern web development technologies, including **React, JavaScript, and server-side rendering**, to ensure a seamless user experience and efficient performance
- Leveraged a large JSON dataset containing thousands of recipes to provide accurate and fast search results.

Discord Web Scraping Bot ⧉
Python, BeautifulSoup4
- Built a Discord bot that delivers **real-time** COVID-19 data specifically for Canadian users
- Utilized **BeautifulSoup** for **web scraping** to extract key statistics like total cases and deaths from sources such as Wikipedia
- The program scrapes data from websites such as Wikipedia and displays the most important information related to COVID-19

Bookstore Application
Java, JavaFX
- Developed a bookstore simulation application using **object-oriented programming** principles to manage inventory, customers, and transactions
- Created **dynamic interfaces** for user interactions, including login and book purchase, while enabling efficient administrative control over inventory and customer data
- Ensured code **maintainability and modularity** by leveraging OOP best practices such as **encapsulation and inheritance**, resulting in a flexible and adaptable architecture