

# Fareen Khan

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## 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 a **SwiftUI** based iOS weather application used by over 300,000 users
- Developed a radar feature using **Google Maps SDK and MSC GeoMet API** that allowed the user to see the precipitation across Canada over a 3-hour timeframe
- Created a timeline that showcases the weather over 24 hours
- Implemented a popup notifications center called MetNotes to deliver weather notes to the user
- 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.

### Music Tracking Application

*Oracle SQL, Java*

- Designed and developed a music tracking application using **Java** and **OracleSQL** so that users can track and rate music they listen to as well as music that others have listened to
- Implemented **JWT** token to save session information and verify requests
- Used **Kubernetes** to allow synchronized messaging between different microservices
- Packaged the application on **Docker** and hosted it on **Google Cloud's Kubernetes**

### 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