


Fareen Khan

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Skills

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

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

Professional Experience

Software Engineer

May 2023 – Aug 2024

Environment Climate Change Canada

- 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.

Recruitment Officer

May 2022 – Jun 2022

Elections Ontario

- 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

Software Engineering Intern

Jun 2022 – Sep 2022

AVOLTA

- 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

Bookstore Application

Java, JavaFX

- Developed an application that simulates a functioning bookstore using object-oriented programming principles
- Led a team to decide on roles and assign deadlines to each member of the team
- Implemented 4-5 interfaces including a login page and purchase/redeem books, utilizing classes and objects to manage books, customers, and transactions
- Designed administrator interfaces for adding/removing books and customers, ensuring encapsulation and inheritance were applied
- Utilized a text file to store information on customers and manipulate the file whenever a new customer was created or when customer information was updated

Discord Web Scraping Bot

Python, BeautifulSoup4

- Developed a discord bot to display COVID-19 data within Canada
- The program scrapes data from websites such as Wikipedia and displays the most important information such as total number of cases and total number of deaths due to COVID-19

Recipe Finder

NextJS

- Developed a web app to find recipes using information on ingredients or the title of a recipe
- Users can search the catalogue with a list of ingredients they have available and find recipes given them
- The app currently uses a large JSON with thousands of recipes and uses a search feature to find the recipe

Education

Toronto Metropolitan University

Sep 2020 – present

Bachelor of Engineering in Software Engineering

- Achievements: 4.13/4.33 GPA, Deans List 2020, 2021