

Jorra Singh

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EDUCATION

York University, Bachelor of Engineering

Toronto, ON

Software Engineering (B.Eng), Specialized Honours in Computer Security

Sept. 2018 – May 2023

Relevant Courses: Design and Analysis of Algorithms, Data Structures and Algorithms, Computer Networks, Operating Systems, Applied Cryptography, Computer Security

Academic Achievements: Cumulative GPA: 3.8/4.0, Member of the Dean's Honour Roll (2019, 2021/2022)

EXPERIENCE

Software Engineer Intern

May 2022 – Sept 2022

WW/Weight Watchers

New York, City, NY

- Worked on the Growth Team to create a new streamlined sign-up service using **React**, **Next.js**, and **Recoil**. This sign-up service will be used by **millions** of new WW guests worldwide.
- Created custom reusable components for the sign-up service using **React** and custom **CSS**.
- Participated in code review ceremonies to ensure new code would adhere to the existing standards of the codebase.
- Integrated **Playwright** (an end-to-end testing framework) within the sign-up project and wrote comprehensive tests (including unit tests using **Jest**).

Software Developer Intern

Sep. 2020 – April 2021

OMERS

Toronto, ON

- Created an automated process to download and format reports on a fixed schedule, resulting in time savings of **25 hours** per year for the business.
- Conducted peer reviews on code written by fellow developers to ensure that coding standards were adhered to.
- Created a robust excel spread sheet used for vendor onboarding, utilizing **Visual Basic** and data validation techniques to ensure correct input.

PROJECTS

York University Prerequisite Checker | *React, Express.js, MongoDB, Python*

- Developed a full-stack web application to allow York University students to easily see the prerequisites for a given course (a feature that is not supported by York University natively).
- Developed an **Express.js** API with **dynamic routing** to handle requests from the front-end.
- Developed an **automated script** to parse through the EECS courses offered at York and update the API with the most current information.
- Created a clean and user friendly front-end using **React** and custom **CSS**, allowing York University students to be able to easily use the application.

Automated Registration Bot | *Python, AWS EC2*

- Created an automated script that enrolls the user in courses of their choosing at York University.
- Utilized the **Selenium WebDriver** to automate real user interactions with the York University Registration page allowing for **automatic** enrollment.
- Incorporated the **Twilio API** to easily update the user on any successful or failed action via a text message.

Venn Diagram App | *Java, JavaFX, Git, Gradle, CircleCI, JUnit, CSS*

- An agile team project that utilizes the JavaFX framework to create a versatile GUI allowing for all the traditional functionality of a Venn Diagram.
- Added logic for the application to not only support traditional Venn Diagrams, but also those which have more than two sets.
- Participated in mock scrum ceremonies including standups, and ticket allocation to ensure the project was completed on time.

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, Bash, C, HTML/CSS, Sass

Frameworks/Libraries: React, Next.js, Express.js, Spring Boot, JUnit, Jest

Developer Tools: Git, Unix, Docker, Figma, GitHub Actions (CI/CD), Jira, Postman