

PRANAY MANCHANDA

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SKILLS

Programming Languages: Python, SQL, C#, C++, Java, JavaScript, HTML, CSS

Frameworks and Libraries: Node.js, React.js, Express.js, .NET, MySQL, PostgreSQL, Spring Boot, Agile

Tools: Git, Visual Studio Code, Azure DevOps, AWS, Octopus Deploy, APIs, Selenium

Certifications: AWS Certified Cloud Practitioner (December 2023)

EDUCATION

University of Waterloo

Bachelor's, Computational Mathematics

Graduating: June 2025

RELEVANT COURSEWORK

Data Structures and Algorithms, Object-Oriented Programming, Algorithm Design & Data Abstraction, Functional Programming

PROFESSIONAL EXPERIENCE

MAP Pharmaceuticals

Software Engineer Intern

Kuwait City, Kuwait

October 2023 - December 2023

- Developed a laboratory management system with **React.js** and **Node.js** that improved operational efficiency for the R&D team by **20%** through streamlined data entry processes.
- Enhanced the user interface of a pharmaceutical analytics dashboard using **HTML**, **CSS**, and **React.js**, leading to a **15% increase** in user satisfaction and improved data-driven decision-making processes.
- Developed and optimized **SQL queries** for data analysis, improving the efficiency and accuracy of drug trial data reports, which assisted in streamlining the decision-making process for clinical trials.

Summitt Energy

Software Engineer Intern

Mississauga, ON, Canada

June 2022 - August 2022

- Engineered solutions as a Junior Developer, actively contributing to the development of an in-house software application for oil and gas trading. Utilized **C#** within the **.NET Framework** for robust back-end development, ensuring optimal performance and supporting core functionality.
- Ensured application reliability and quality through extensive back-end testing. Implemented a continuous integration/continuous delivery (**CI/CD**) pipeline using **Azure DevOps** Services and **Octopus Deploy** for automated testing, facilitating efficient and effective testing throughout the development lifecycle.
- Developed user interface features such as buttons and display tables and conducted comprehensive back-end **SQL** testing for an employee payroll management application.

Toronto Transit Commission (TTC)

Software Engineer in Test

Remote

September 2021 - December 2021

- Spearheaded the development and maintenance of test scripts, focusing on **UI testing** for a critical update on the TTC website. This update included the implementation of a new "live bus and train location" feature, impacting over **1 million** users.
- Crafted test scripts, test requirements, and test cases aligned with Functional Specifications, utilizing **Selenium** and **Python** for a version update on the TTC website.
- Executed front and **back-end testing**, providing valuable insights and technical assistance for the implementation of site features such as customer support query forms, interactive map designs, and customer feedback forms.

PROJECTS

Smart Brain

A **full-stack** face recognition app which uses a **machine learning API** to detect a face in an image passed as a URL. Stack: React, HTML, CSS, JavaScript [Front - end] Node.js, Express.js [Server] PostgreSQL [Database]

AI Chatbot

Developed a command line **Python**-based **AI chatbot** utilizing **Open AI API**, allowing users to input their desired conversation type and receive a personalized AI bot for that topic.

Chess Game

Developed a chess game using **C++** which has 2 levels of Computer AI and implemented **graphics** using X11. User can choose to play human vs human, human vs computer or computer vs computer.