

# MANAV PATEL

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## EDUCATION

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### Toronto Metropolitan University (Formerly Ryerson University)

Toronto, ON, Canada

B.E. Computer Engineering, Software Engineering Specialization

Sept 2019 - Apr 2024

**Relevant Coursework:** Software Design and Architecture; Operating Systems; Data Structures and Algorithms; Database Systems; Object-Oriented Design; Software Systems

## WORK EXPERIENCE

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### Lockheed Martin

Ottawa, ON, Canada

Software Engineer Intern

Sept 2022 – Apr 2023

- Iterated over data models and API endpoints while building modular code while working in an Agile environment.
- Developed **150+ APIs** for web technologies using API frameworks such as **ExpressJS** and Databases like **PostgreSQL**.
- Outlined flexible and scalable data models that can be served with low latency for **2 projects**.
- Facilitated **5+** phases of the **SDLC**, including design, coding, code review, testing, bug fixing, and code/API documentation.
- Implemented a machine learning API into a project, gaining exposure to machine learning concepts and utilizing **2** machine learning libraries **NumPy** and **Pandas**.

## PROJECTS

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### Skywatch | [Github](#)

Dec 2022

- Created a responsive weather app using **Vanilla JS** and **CSS** that allows users to view weather conditions for over **200,000** cities.
- Retrieved information using the **OpenWeatherAPI** with a reliability between **90%- 100%**.
- Conducted over **20** tests and fixed **15+** bugs using **JEST** to ensure smooth operation of the app.

### Online Shopping Store | [Github](#)

Mar 2022

- Developed an online shopping store with **Java**, **MySQL**, with average load time of **2 ms**, and **Docker** to deploy the containers.
- Created **REST APIs** with a success rate of **97%+**, to enable the front-end to communicate with the back-end.
- Implemented **Kubernetes** for container orchestration and resource management, and deployed to **Google Cloud Platform**.

### Movie Store DBMS | [Github](#)

Nov 2021

- Created a movie store DBMS to store and applied **SQL** to design and implement the database schema.
- Designed a sleek UI using **Javascript**, **HTML** and **CSS** to improve user experience.
- Applied efficient **database design** and optimization techniques to ensure fast query processing with a **98%+** success rate.
- Incorporated **Express.js** as the back-end web application framework for building **7+ REST APIs** with **Node.js**.

### To-Do List Web App | [Github](#)

Jul 2021

- Built a local **CRUD** web app with **Python**, featuring user registration & login functionality, with a success rate of **95%**.
- Managed the application's back-end using **Django** and received a **100%** Google Lighthouse Performance rating.

### Book Store Application | [Github](#)

Mar 2021

- Simulated the standard functions of a bookstore with a transaction system by creating a GUI with **JavaFX** for 3 views.
- Implemented **Java** to enforce all 4 **OOP** concepts to design the application's structure and behavior.
- Incorporated **JUnit** to conduct unit tests with **80%+** code coverage.

## TECHNICAL SKILLS

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**Languages:** Java, C/C++, Python, JavaScript/ TypeScript, SQL, C#

**Frameworks/ Technologies:** JUnit, Node.js, Express.js, JEST, MySQL, Django, PostgreSQL, Oracle

**Developer Tools:** Visual Studio, Eclipse, Git, AWS, Google Cloud, Jupyter, Docker, Kubernetes, Jira, Apache Tomcat

## EXTRACURRICULARS

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**Certifications:** Python Bootcamp (Udemy), Beginning C++ Programming (Udemy), Machine Learning, Data Science and Deep Learning with Python (Udemy)