

MANAV PATEL

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EDUCATION

Toronto Metropolitan University (Formerly Ryerson University)

Toronto, Canada

B.E. Computer Engineering, Software Engineering Specialization

Sept 2019 - Apr 2024

Relevant Coursework: Data Structures and Algorithms; Database Systems; Object-Oriented Programming; Machine Learning; Computer Vision; Software Design and Architecture; Software Project Management; Software Testing; Cloud Computing

WORK EXPERIENCE

Software Engineer Intern

Toronto, Canada

FGF Brands

May 2023 – Aug 2023

- Demonstrated up-to-date knowledge and experience with **.NET** and **MVC** applications and improved application stability.
- Collaborated with a team of **20+** members, delivering multiple projects and tasks on time, and exceeding expectations.
- Assisted with enhancing the company's Workflow Management Portal, an application that manages internal workflows.
- Tested and finetuned applications, reducing the instances of bugs by **10%**.
- Ensured accurate data transfer and mass upload through proficient data migration and precise **SQL** queries.

Software Engineer Intern

Ottawa, Canada

Lockheed Martin

Sept 2022 – Apr 2023

- Developed **150+ APIs** for web technologies using API frameworks such as **Express.js** and Databases like **PostgreSQL**.
- Outlined flexible and scalable data models that can be served with low latency for **2 full-stack projects**.
- Created and executed unit tests with **80%+** code coverage, which reduced the number of bugs reported by users.
- Facilitated **5+** phases of the **SDLC**, including design, coding, testing, bug fixing, and code/API documentation.

PROJECTS

BiasAware - Engineering Capstone Project

Sept 2023 - Present

- Developing a web-based tool to reveal and address social biases in AI Image Generators.
- Identified **8-10** distinct social biases while curating an extensive database of over **500** images for each bias category.
- Employing a versatile tech stack, including **React**, **Django**, **MongoDB**, and **Google Cloud Platform**.
- Utilizing AI tools like **TensorFlow** and **PyTorch** for the precise identification of social biases within AI-generated images.

onTrack | [Github](#)

Nov 2023

- Led the development of 'onTrack', a web-based application for students to manage tasks and collaborate efficiently.
- Integrated core features like shared calendars and real-time task status tracking, enhancing collaboration and productivity.
- Built application using **React**, **Express.js**, and **Oracle** for a user-friendly task management platform.

Language Identifier

Nov 2023

- Developed a project to explore and apply foundational concepts of Computer Vision and Image Processing.
- Used **OpenCV** and **TensorFlow** to apply image processing and deep learning techniques for text recognition.
- Ensured precise language detection of multiple Latin alphabet languages via an integrated language identification API.

Online Shopping Store | [Github](#)

Apr 2022

- Developed an online store with **Java**, **MySQL**, with an average load time of 2 ms, and **Docker** to deploy 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 deployed to **Google Cloud Platform**.

TECHNICAL SKILLS

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

Frameworks/Technologies: JUnit, Node.js, Express.js, JEST, MySQL, Django, PostgreSQL, Oracle, Sklearn, Numpy, Pandas, .NET, MVC, jQuery

Developer Tools: Visual Studio, Git, Amazon Web Services, Google Cloud Platform, Azure DevOps, Jupyter, Docker, Kubernetes, Jira, Apache Tomcat