MANAV PATEL

Toronto, ON, Canada | 1-(647)-965-6728 | manav1.patel@torontomu.ca | linkedin.com/in/manavpat | manavpatel.me

EDUCATION

Toronto Metropolitan University (Formerly Ryerson University)   Toronto, Canada
M.Eng Computer Engineering   May 2024 - April 2025

Toronto Metropolitan University (Formerly Ryerson University)   Toronto, Canada
B.Eng Computer Engineering, Software Specialization   Sept 2019 - Apr 2024

WORK EXPERIENCE

Software Engineer Intern   May 2023 – Aug 2023
FGF Brands   Toronto, Canada
- Demonstrated up-to-date knowledge and experience with **.NET 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   Sept 2022 – Apr 2023
Lockheed Martin   Ottawa, Canada
- 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 | Github   April 2024
- Developing a web tool aimed at illustrating the biases present within AI Image generators, for a final-year capstone project.
- Generated **3000+** images for **8-10** distinct social biases while curating a database of images and their' defining prompts.
- Implementing a responsive web application using **MongoDB**, **Node.js**, and **React** with extensive database management.
- Coordinated team tasks, managed timelines and facilitated stakeholder engagements as **project manager**.

Resort Transportation Management System| Github   March 2024
- Built a transportation tool to optimize resort guest transportation, enhancing travel by linking multiple locations.
- Decreased wait times and enhanced route efficiency for **5+** key locations, meeting diverse guest transportation needs.
- Leveraged **FastAPI**, **React**, and **MongoDB**, and deployed via **Docker** and **Kubernetes** on **AWS** for seamless operation.

Secure Banking System | Github   March 2024
- Created a key protocol to ensure secure ATM-bank communication, featuring encryption and authentication mechanisms.
- Crafted a dynamic, secure socket communication channel that supports concurrent ATM client connections.
- Designed a GUI with **PyQt** and leveraged **Python's** cryptography libraries, enhancing secure communication.
- Implemented an encrypted audit log system to secure transaction records, ensuring data integrity.

onTrack | Github   Nov 2023
- Led the development of 'onTrack', a web-based application for students to manage tasks and collaborate efficiently.
- Advanced the app with core features like shared calendars and live task updates enhancing collaboration and productivity.
- Built with a focus on simplicity and efficiency, utilizing **React**, **Express.js**, and **Oracle** to deliver a user-friendly experience.

Personal Website | manavpatel.me (for additional projects)

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