

# Mansi Patel

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## EXPERIENCE

### Ontario Ministry of Education

Software Developer

May 2023 - Aug 2024

Toronto, ON

- Resolved **bugs and AODA defects on a Java and Spring application** for two SOR-RL project releases, and added features including advanced search bars, dynamic form fields, and new webpages, improving the client-side search efficiency by 30%.
- Leveraged **Apache JMeter for load testing and Selenium automation scripts** to monitor performance, cutting down report generation time by 7-8 seconds and improving overall responsiveness under high loads.
- Competed in a Microsoft AI hackathon, developed a **Copilot model**, designed a **PowerApps frontend**, and pitched a prototype for geospatial document processing.
- Reviewed business rules to thoroughly **test code, optimizing code quality** which led to a 20% decline in post-release defects.

### Ryan

Research & Development Intern

Jul 2022 - Aug 2022

Mississauga, ON

- Developed an Excel workbook using **Visual Basic to automate** the creation of workbooks for client SRED-qualifying projects, eliminating 2 hours of manual data entry time.
- Designed a system with subroutines & macros for **data processing**, improving the speed of Profit After Tax calculations by 15%.
- Gained proficiency in Excel VBA within 2 days and **completed the VBA certification** 100% faster during on-boarding.

### Aviso Wealth

Marketing & Digital Wealth Intern

Jun 2021 - Aug 2021

Remote

- Developed webpages for KXG Credential using **HTML5, CSS3, and Adobe Dreamweaver**, enhancing user engagement.
- Collaborated with the VP of Product Marketing with the **rebranding of Qtrade Direct Investing** by scheduling meetings.
- Utilized **industry tools** including **Google Analytics, Microsoft BI, Smartsheet, InVision, Figma, and Dialogue Insights** to analyze and increase rebranding task efficiency by 15%.
- Engaged with **cross-functional teams** in Engineering, Marketing, Digital Wealth, and Online Brokerage.

## PROJECTS

### Library Management System Capstone

Python, JavaScript, MongoDB, Docker, Kubernetes

- Led the design and development of a responsive web application deployed on Google Cloud using a **microservices** architecture.
- Engineered a layered architecture within each microservice, maintaining **isolation of features** to ensure modularity and scalability.
- Optimized a sleek, modern UI with **high-performance data operations**, including robust error and edge case handling.

### Rover Operator Dashboard

Azure, Docker, Python, JavaScript, HTML5, CSS3

- Innovated a responsive **Python algorithm** enabling rover navigation on a dynamic map and **CRUD operations** for disarming mines.
- Deployed and tested the scalable application using **Docker and Microsoft Azure** with concurrent access for multiple users.

### Mansi Patel's Website

React, Node.js, JavaScript, HTML5, CSS3, Netlify

- Developed a **full-stack web application** featuring a ReactJS front-end and JavaScript backend deployed on Netlify.
- Engineered improved user experience with **modern UI elements**, light/dark mode functionality, and optimized performance.
- Designed a responsive interface, ensuring **compatibility across 20+ devices**, platforms, and browsers.

### BizPoints: Resources Module

React, Node.js, HTML5, CSS3, Bootstrap, MongoDB

- Developed a responsive full-stack **React and Node.js** application to provide resources and training programs for AlphaBiz Clients.
- Designed a **Work Breakdown Structure** on MS Project to allocate resources as the **Project Manager**.

## SKILLS

### Programming Languages

Java, C, Python, Visual Basic, XHTML, HTML5, CSS3, JavaScript, VHDL, MATLAB

### Libraries & Frameworks

React, Node.js, Spring, FastAPI, Java Server Faces, Flask, gRPC

### Tools & Platforms

Google Cloud, Docker, Kubernetes, Git, IBM Websphere, Microsoft Azure, Subversion, Jira

### Databases

Oracle Database, MongoDB, Firebase, SQL, NoSQL, MyBatis

## EDUCATION

### Toronto Metropolitan University

BEng, Computer Engineering, *Software Engineering Specialization*

Sep 2020 - May 2025

Toronto, ON

## ACHIEVEMENTS

- Infobesity Challenge Winner** by IBZ & Redocracy – Presented a solution addressing information overload on social media.
- Better Security Hackathon Winner** by ShowCode – Developed a web application to train users on detecting phishing emails.
- Next Great Innovator 3rd Place Winner** by RBC – Implemented a Kompozer website to solve a UN environmental goal.