

Shiv Patel

+1 (647) 294-0235 ✉ pates302@mcmaster.ca [in shiv-sp](#) [shiv-sp](#) www.shivpatel.vercel.app

Education

McMaster University

Hamilton, Ontario

Bachelor of Engineering (B.Eng), Computer Engineering (ECE) Co-Op

Sept. 2023 - Apr. 2028 (Expected)

- **Relevant Courses:** Data Structures & Algorithms, Design & Projects in Engineering, Principles of Programming, Logic Design, Circuit Analysis, Artificial Intelligence - Innovative Technologies, Probability & Statistics For Engineers
- **Clubs & Teams:** MacEng Ambassador & Tour Guide, DeltaHacks (**Hackathon Participant**), McMaster Intramural League (**Game Day Official & Participant**)
- **Awards:** McMaster Engineering Dean of Excellence Award (**\$7500**), McMaster University Award of Excellence (**\$3000**)

Projects

Finance Trend Plotter — [🔗](#)

January 2025

Python, Pandas, yfinance, Matplotlib, Jupyter Notebook, numPy

Personal Project

- Developed a tool to fetch and analyze **2 years of stock data** using **yfinance** and visualized trends with **50-day and 200-day moving averages**.
- Created a production-quality plot with **Matplotlib**, including a professional title, labeled axes, and clear chart elements.
- Utilized **Jupyter Notebook** for interactive analysis and seamless integration of Python libraries like **pandas** for data manipulation.

Personal Website/Portfolio — [🔗](#) [🌐](#)

December 2024

TypeScript, Next, React, TailwindCSS, JavaScript, Git

Personal Project

- Designed and developed a fully responsive personal portfolio website using **Next.js**, **React.js**, and **TailwindCSS**, optimizing for both desktop and mobile experiences.
- Implemented dynamic routing and efficient state management to showcase projects, skills, and professional achievements seamlessly.
- Leveraged **TypeScript** and **Git** for robust code structure and version control, ensuring maintainability and scalability of the project.
- Integrated SEO best practices and web performance optimization techniques, achieving improved search engine visibility and faster load times.

Snake Game — [🔗](#)

November - December 2024

C/C++, Git

Academic Project

- Developed a classic **Snake Game** using **C/C++**, utilizing **VSCode** to design an interactive, live-updating UI that dynamically responds to user input and game events.
- Implemented core game mechanics such as **real-time collision detection** and adaptive gameplay logic, ensuring smooth performance and an engaging user experience.
- Leveraged **object-oriented programming (OOP)** to modularize game components, improving code readability and enabling seamless feature expansion.

Work Experience

Software Development Officer — [🌐](#)

September 2024 - Present

MicroBuild Engineering Society McMaster

Hybrid

- Ensure **website maintenance** by performing regular updates, fixing bugs, and optimizing the site for performance using **React**, **Next.js**, and CSS frameworks such as **Bootstrap** and **Tailwind CSS**.
- Collaborate in a **team environment**, working closely with designers, content creators, and other developers to implement features, review code, and maintain **version control** using **Git**.
- Enhance the website's functionality and design by integrating **React components**, implementing responsive layouts with **Bootstrap** and **Tailwind CSS**, and optimizing for user experience.

Living Learning Community (LLC) Community Advisor (LLC CA)

April 2024 - Present

McMaster University - Housing & Conference Services (Residence Life)

Hybrid

- Used **Teams**, **Outlook**, and **Excel** for scheduling, reporting, and tracking key performance metrics.
- Ensure all participants' physical, mental, and social safety, promptly reporting any issues to supervisors.
- Maintain **confidentiality** while **liaising with internal stakeholders** on student services matters.
- Organized **6+** community events each semester, using **Excel** and **Microsoft Project** for budget and task management.
- Created event flyers and digital content using **Canva**, **increasing engagement by 25%**.

Skills

Languages: Python, C/C++, HTML/CSS, JavaScript, TypeScript, MATLAB, LaTeX, R

Frameworks/Libraries: Next, React, TailwindCSS, Pandas, Matplotlib, yfinance, numPy

Hardware: Verilog (HDL), Arduino, Analog Discovery 2/3, Quanser Technologies

Tools: GitHub, Git, Figma, Quartus, LTSpice, PSpice, OrCAD VS Code, Jupyter Notebook, Microsoft Office (Excel, Teams, Outlook, Word, PowerPoint), AnsysGranta, AutoCAD, PrusaSlicer, Aceternity UI, Framer

Certifications/Training: WHMIS 2015, First Aid & CPR/AED (Level C), safeTALK, AODA, Ontario G-Class License