

Shiv Patel

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Education

McMaster University

Hamilton, Ontario

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

Sept. 2023 - Apr. 2028 (Expected)

- **Relevant Courses:** Data Structures & Algorithms, Principles of Programming, Logic Design, Electronic Circuits & Design, Probability & Statistics for Engineering, Artificial Intelligence - Innovative Technologies
- **Clubs & Teams:** MacEng Ambassador & Tour Guide, DeltaHacks X (**Hackathon Participant**), McMaster Gujarati Students Association (**VP Finance**), McMaster Intramural League (**Game Day Official**)
- **Awards:** Engineering Dean of Excellence Award (**\$7500**), McMaster University Award of Excellence (**\$3000**)

Technical Skills

Programming Languages: Python, C*, C++*, Java*, HTML/CSS, JavaScript, TypeScript*, R*, MATLAB, LaTeX, Verilog*

Software: Next.js, React.js, Three.js*

Hardware: Arduino, PIC Microcontroller, AD3, Quanser Technologies

Tools: Figma, GitHub, VS Code, Jupyter, Microsoft Office (Excel, Teams, Outlook, Word, PowerPoint), AnsysGranta, AutoCAD, Aceternity UI, Framer

Certifications/Training: WHMIS Trained, First Aid & CPR/AED (Level C)

Projects

Personal Website/Portfolio [IN PROGRESS]

September 2024

HTML/CSS/JavaScript, TypeScript, TailWindCSS, Next.js, React.js, Figma

Personal Project

- Developed using **Next.js** with **TypeScript**, incorporating server-side rendering for improved performance and SEO, alongside **Framer Motion** for sleek animations.
- Integrated **React hooks** for efficient state management, and dynamic routing to showcase projects with seamless navigation.
- Designed with **Tailwind CSS** for a modern, responsive UI/UX, ensuring mobile-first optimization across all devices.

Power in Community - The Porta-basket

Mar. 2024 – Apr. 2024

AutoCAD, AnsysGranta, PrusaSlicer, Microsoft Applications

Academic Project

- Collaborated on the **IMPACT Initiative** to **design a collapsible basket prototype for wheelchair attachment**, addressing mobility and accessibility challenges **for a client with spina bifida**, enhancing their independence.
- Used **AutoCAD** for 3D modeling and **laser cutting** for precise fabrication, ensuring the prototype's functionality and ease of use.
- Applied **PrusaSlicer** for **3D printing components**, and employed an **iterative design** process to refine the product, improving upon traditional wheelchair storage solutions.
- Led the **project management** efforts, coordinating an interdisciplinary team to develop a user-friendly, accessible solution, with plans to improve collapsibility, waterproofing, and item containment.

Lurnius

Jan. 2024

Python, React, SQL, TypeScript, Next.js, Node.js, Express.js, Figma

Hackathon Project

- **Collaborated with Yax Patel, Peter Yang, and Sharvin Soosaipillai**
- Designed a **responsive frontend using Next.js, React, and TypeScript**, optimized through **Figma prototypes**, to facilitate community engagement with an intuitive interface for voting and commenting on resources.
- Leveraged **Cohere's large language models (LLMs)** to automate the curation and classification of educational resources, enhancing personalized content delivery on a web-based interface.
- Developed a **scalable backend with Node.js, Express, and TypeScript**, integrating **PlanetScale's MySQL-compatible database** for efficient data management and user interaction.
- Integrated **Google YouTube and Books APIs** along with the **Open Educational Resources (OER) API** to dynamically source a diverse range of learning materials, maintaining content relevance and freshness.

Work Experience

McMaster University Housing & Conference Services

April 2024 - Present

Residence Life Staff - Living Learning Community (LLC) Community Advisor

Hybrid

- Develop interactive activities to promote personal dignity and mutual respect within the assigned community area.
- Ensure the physical, mental, and social safety of all participants, promptly reporting any issues to supervisors.
- Maintain confidentiality while liaising with internal stakeholders on student services matters.
- Conduct regular rounds of residence buildings, promoting staff engagement and community standards through the coordination of initiatives and events.

Jays Care Foundation

Jun. 2024 – Aug. 2024

RBI SE: Coach

On-Site

- Lead and support a group within a large camp setting of up to 200 youth, **ensuring a safe, inclusive, and welcoming environment.**
- **Collaborate with an Inclusion team and program directors** to develop, implement, and adapt camp programs to meet diverse needs, conducting assessments and creating appropriate accommodations.
- **Serve as a role model and advocate for campers**, fostering a culture of respect, empathy, and understanding, while coordinating with families, staff, and external support services.
- **Regularly evaluate and adjust inclusion initiatives based on feedback**, ensuring continuous improvement in the camp's inclusivity efforts.