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)*
- <u>Relevant Courses</u>: Design & Projects in Engineering, Principles of Programming, Logic Design, Circuit Analysis, Artificial Intelligence - Innovative Technologies
- <u>Clubs & Teams</u>: McMaster Microbuild Engineering Society (**Software Development Officer**), MacEng Ambassador & Tour Guide, DeltaHacks X (**Hackathon Participant**), McMaster Gujarati Students Association (**VP Finance**), McMaster Intramural League (**Game Day Official**)
- <u>Awards</u>: McMaster Engineering Dean of Excellence Award (**$7500**), McMaster University Award of Excellence (**$3000**)

Projects

Personal Website/Portfolio — ⬡ 🌐 — December 2024
TypeScript, Next.js, React.js, 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.

Lurnius — ⬡ Ⓓ — Jan. 2024
Python, React, SQL, TypeScript, Next.js, Node.js, Express.js, Figma — *Hackathon Project*
- 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 (CA) — *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
Software: Next, React, TailwindCSS
Hardware: Verilog (HDL), Arduino, Analog Discovery 2/3, Quanser Technologies
Tools: Figma, GitHub, Git, Quartus, PSpice, VS Code, Jupyter Notebook, Microsoft Office (Excel, Teams, Outlook, Word, PowerPoint), AnsysGranta, AutoCAD, PrusaSlicer, Acternity UI, Framer
Certifications/Training: WHMIS 2015, First Aid & CPR/AED (Level C), safeTALK, AODA, Ontario G-Class License