

Harsh Patel

Software Developer | Software Engineer

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OBJECTIVES

Results-driven and adaptable Web Developer with a strong background in software development, project management, and technical analysis. Leveraging expertise in front-end development, database management, and agile methodologies as well as learned the software testing in depth to deliver innovative solutions and drive operational excellence. Seeking opportunities to apply advanced skills in MERN, NodeJS, NextJS14, and CI/CD pipelines to contribute to dynamic projects and collaborate with high-performing teams in a challenging environment.

EDUCATION

Computer Programming and Web Development

2023-2024

Seneca Polytechnic, Toronto

- CGPA: 3.7/4.0 with 4/4 GPA in 3rd Semester [**President's Honors List**]
- Focused on Software Engineering, Database Management Systems, and Frontend-web Development.
- Relevant Coursework:** Web Development, Data Structures and Algorithms, Database Management System, Object Oriented Programming, Project Management Using Agile Methodology

SKILLS

- Programming Languages & Technologies:** Proficient in C, C++, Python, JavaScript, HTML, CSS, Unix/Linux, and Git, with a focus on software engineering principles.
- Software Development & Frameworks:** Strong foundation in Node.js, Express.js, React, Next.js, and Bootstrap for scalable, interactive, and responsive web applications.
- Database Management:** Knowledgeable in Oracle SQL, PostgreSQL, MongoDB, emphasizing data integrity and manipulation.
- Project Management:** Experienced with Jira Software, enhancing team collaboration and project tracking.

EXPERIENCE

Virtual Mentor For Remote Learning

Seneca College, September-December 2023

- Provided personalized academic support through in-class assistance and problem solving.
- Facilitated virtual study groups to promote collaborative learning and peer support.
- Focused on fostering student engagement, motivation, and accountability in remote learning environments.
- Adapted strategies to address challenges such as technological limitations and communication barriers.
- Made a meaningful impact on student's academic success and online learning experiences.

Web Developer (Contract)

Mikkaso Corporation, India, January – August 2022

- Contributed to the development and deployment of web-based applications within a three-month contract, collaborating with a diverse team to meet project objectives and deadlines.
- Utilized JavaScript, ReactJS, and Node.js to create interactive and responsive user interfaces, ensuring seamless user experiences.
- Conducted unit testing and debugging to maintain code quality and functionality.
- Engaged in continuous learning and adaptation to new technologies and frameworks to enhance project outcomes and personal skill set.

PROJECTS

Museum Art Explorer | React, Next.js, Bootstrap, SWR: [\[GitHub\]](#) [\[Explorer Preview\]](#)

- Overview:** Dynamic web app driven by a powerful USER API, seamlessly connecting users to global museum collections. Crafted with meticulous attention to detail, every endpoint rigorously tested using industry-standard tools like Postman. Experience the art world like never before, with reliability and innovation at its core.
- Impact:** Significantly enhanced the Museum browsing experience by offering users a comprehensive platform to view with their authentication, search, and interact with Artifacts. The application's intuitive design and efficient data handling greatly improved navigation and user engagement, showcasing my ability to deliver high-quality, user-centric web solutions.
- Technologies:** Crafted with React and Next.js for a dynamic user API and interactive user interface, leveraged MongoDB Atlas for data storage, Express for server-side logic, and Bootstrap along with SWR for a responsive design and optimized data fetching strategies as well as use of Jotai to manage global states.

Lego Sets Management Website: [\[GitHub\]](#) [\[Lego Collection Preview\]](#)

- **Overview:** A sophisticated web-based application designed to manage Lego set collections, demonstrating advanced skills in full-stack development, data management, and user interface design. The system, showcases efficient data handling and user interaction capabilities. Engineered a comprehensive web-based solution for cataloging and managing Lego set inventories.
- **Technologies:** Utilized Node.js and Express.js for constructing the server-side architecture, Sequelize interfaced with PostgreSQL for robust database operations, MongoDB for efficient session management, and Tailwind CSS in conjunction with AJAX for front-end development.
- **Impact:** The system optimized the process of collection management, enhancing user experience via effective data manipulation and a refined user interface. Exhibited proficiency in architecting scalable and maintainable web applications that augment user interaction and data processing capabilities.

Game Tree-Based Bot Board Game | Python: [\[GitHub\]](#)

- **Overview:** Developed an AI bot capable of strategic gameplay in a 2D board game environment. The bot utilizes advanced algorithms to analyze game states and make optimal moves, enhancing the gaming experience for players.
- **Technologies:** Proficient in Python for bot implementation and game logic. Implemented Minimax Algorithm for strategic decision-making. Developed an Evaluation Function to assess board states. Utilized effective data structures for game representation.
- **Impact:** Created an AI-powered bot that elevates gaming experiences by providing challenging gameplay against an intelligent opponent. Enhances competitive environments and contributes to advancements in AI technology within the gaming industry.

School Banking System Development [Group Project] [\[View Code\]](#)

- **Overview:** Designed and implemented a robust Student-Faculty Management System aimed at streamlining the organization and utilization of student and faculty information. Leveraging C++ programming language and seamlessly integrating with an Oracle SQL database, this project epitomizes proficiency in data management and operational efficiency. Furthermore, the experience cultivated adept collaboration skills within a team environment, facilitated by the utilization of project management tools like Jira, ensuring adherence to project timelines and deadlines.
- **Technologies:** Utilized C++ for application logic and Oracle SQL for database interactions, emphasizing secure and efficient data manipulation, Used Jira Software to keep track of all the updates and features.
- **Impact:** The project underscored skills in secure database integration, complex system development, and efficient data management.