Harsh Patel

Software Developer | Software Engineer

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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 guidance.
- Led virtual study groups resulting in a 30% increase in student participation and engagement.
- Focused on fostering student engagement, motivation, and accountability in remote learning environments.
- Adapted strategies to address challenges such as technological limitations and communication barriers.

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.
- Employed JavaScript, ReactJS, and Node.js to create interactive and responsive user interfaces, ensuring seamless user experiences
- Improved web application efficiency by 20% through optimization techniques.
- Conducted unit testing and debugging to maintain code quality and functionality.

PROJECTS

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

- **Overview**: This web app utilizes a robust USER API to seamlessly link users with global museum collections, ensuring reliability and innovation through thoroughly testing with tools like Postman.
- **Technologies:** This project operates with the MERN stack, utilizing React and Next.js for the frontend, MongoDB Atlas for data storage, Express for server-side logic, and Bootstrap, SWR, and Jotai for responsive design, optimized data fetching, and global state management.
- **Impact:** Spearheaded the successful implementation of a cutting-edge MERN stack project, optimizing performance by 40% and achieving a 25% increase in user engagement through NextJS14 integration.

Lego Sets Management Website: [GitHub] [Lego Collection Preview]

- **Overview:** Built a web app for managing Lego sets, demonstrating full-stack development skills and efficient data handling, offering a comprehensive solution for inventory management.
- **Technologies:** Integrated 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:** 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**: 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.

- **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. Collaborated 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:** Developed a Student-Faculty Management System using C++ and Oracle SQL, focusing on efficient data organization. Employed Jira for team collaboration, ensuring adherence to project timelines.
- **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:** Directed database management overhaul, increasing query efficiency by 50% and reducing load times by 30% resulting in a more seamless user experience.