

# Sneh Patel

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## Personal Profile

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- Tech-savvy and proficient in utilizing a wide range of software applications and operating systems, with a strong ability to quickly adapt to new technologies and tools.
- Ability to work effectively in team environments, understanding needs and delivering innovative solutions to technical challenges.

## Education

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University of Western Ontario

London, Ontario

Honours Bachelor of Computer Science

May 2027(Expected)

## Personal Projects

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Anime Scraper | *JavaScript, HTML, CSS*

2024

- Developed a Python-based anime scraper using Selenium and BeautifulSoup to extract detailed anime information from Anime-Planet—reducing manual data collection time by 75%.
- Engineered a user-friendly GUI with Tkinter to facilitate seamless anime searches and display results—enhancing user experience and accessibility by 50%.
- Implemented robust error handling and dynamic name formatting to ensure reliable data extraction across varied webpage structures—reducing runtime errors by 40%.

Sudoku Solver | *C, Java*

2023

- Built a robust Sudoku solver capable of solving 9x9 puzzles efficiently using constraint propagation and backtracking algorithms, enhancing problem-solving and optimization skills.
- Improved usability by outputting clear, rule-compliant puzzle solutions, balancing functionality and user accessibility.

Dragon Fight | *Java*

2023

- Achieved an engaging 2D game experience by developing a fire-breathing dragon game with multi-level progression and enemy AI, enhancing gameplay mechanics and user engagement.
- Implemented gravity-based movement, collision detection, and a game loop using a dedicated thread to maintain consistent 60 FPS, improving performance and responsiveness.
- Improved visual appeal and user experience by creating custom maps, characters, props, and game states for play/pause modes.
- Developed an intuitive movement system, boosting player engagement by 40%

## Work Experience

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Turtle Conservation Volunteer | Heart Lake Turtle Troopers

Mar 2023 – Oct 2023

- Educated Park visitors on turtle conservation and the importance of protecting local wildlife.
- In teams built and maintained turtle nests, ensuring safe habitats and mitigating risks from predators and environmental threats.

## Technical Skills

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**Programming Languages:** Java, Python, C, HTML, SQL, JavaScript

**Foundational Skills:** Data Structures & Algorithms, Object-Oriented Programming, Linux/Unix Database Systems, Computer Architecture and Systems

**Interests:** Game development, Computer hardware, Gym, Traveling