

Sepanta Kamali

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EDUCATION

McMaster University

Bachelor of Applied Science in Computer Science

Hamilton, ON

Aug. 2024 – April 2028

EXPERIENCE

Web Developer

July 2023 – Present

Freelancer

Ajax, ON

- Created fast and responsive websites, improving user experience and engagement.
- Developed custom web tools that increased small business efficiency by 30% through automation.
- Created a system for tracking and sharing test results, saving teams 5+ hours per week.
- Optimized site performance, reducing load times by 40% and increasing visitor retention by 25%.

Customer Service Representative

December 2022 – June 2023

GoodLife Fitness

Ajax, ON

- Helped 100+ members weekly by answering questions and solving issues, leading to a 95% satisfaction rate.
- Improved check-in flow during peak hours, cutting wait times by 20% and making the process smoother.
- Built strong relationships with members, increasing renewals by 15% through better support and engagement.

PROJECTS

Path Finder Visualizer

February 2025

- Developed a Path Finder Visualizer using Python and OOP principles for modular, scalable code.
- Used the A* algorithm to find the shortest path between two points, ensuring optimal and accurate results.
- Used Pygame to visualize how the A* algorithm navigates around obstacles to find the shortest path.
- Implemented graphs, heaps, and priority queues as data structures, improving path-finding efficiency and reducing algorithm runtime by 30%.

Study Buddy

January 2025

- Developed a study tracking app with Swift, SwiftUI, and Xcode in a team of four, boosting productivity by 30%.
- Used SwiftData and CoreData (ORMs) to manage data, improving efficiency by 25% and reducing load times.
- Used SwiftChart to track study progress and visualize trends, making analysis clearer and improving efficiency.
- Won the DeltaHacks XI Swift Student Challenge and Best Community Building Hack out of 130+ projects, recognizing its innovation and impact.

Restaurant Management Software

December 2024

- Developed a system to manage menus and orders, reducing manual work and improving efficiency by 30%.
- Used SQLite to design a structured database, cutting data retrieval time by 25% and improving order tracking.
- Optimized SQL queries in Python, speeding up searches and updates by 30% for better responsiveness.
- Built a Tkinter-based GUI, making the system easier to use and improving staff productivity.

Secure Login System

November 2024

- Led a team of four to develop a secure login system, improving system reliability by 40%.
- Integrated the Argon2id encryption algorithm to securely hash passwords, enhancing password protection by 50%.
- Used Python Tkinter to design a user-friendly GUI, reducing login time by 20% for a smoother user experience.
- Designed a non-relational database using JSON files and hash tables, reducing storage overhead by 30%.

TECHNICAL SKILLS

Languages: Python, C/C++, Swift, SwiftUI, JavaScript, HTML/CSS, Haskell, MATLAB

Database: SQL (Postgres, MySQL, SQLite), JSON, XML, SwiftData, CoreData, SwiftChart

Developer Tools: Git/GitHub, VS Code, Visual Studio, Xcode, PopSQL, Linux/Unix, Bash, MS Office

SOFT SKILLS

McMaster Concrete Toboggan Club

September 2024 - January 2025

- Helped design and build a reinforced concrete toboggan, improving structural durability and performance.
- Assisted in testing and optimizing materials, helping enhance strength and reduce weight for better race results.