

Viransh Shah

Computer Science Student (Level 3)

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Highlights of Qualifications

- Seeking co-op position starting May 2025 for 4 months and May 2026 for 4, 8, 12, or 16 months.
- Strong analytical, attention to detail, and problem-solving skills developed through computer science and math courses.
- Demonstrated excellent teamwork, time management, and communication skills through collaboration with the McMaster Competitive Programming Club and participation in various CTF events.

Education

McMaster University (Level 3)

Expected May 2025

Bachelor of Applied Science in Computer Science

Hamilton, Ontario

- Dean's Honours List: Maintained a GPA of 3.5 or higher (GPA: 3.7 / 4.0)
- **Databases (A+)**: Focus on ER Diagrams, SQL queries, Relational Data Models, Dependency Theory, and Deadlocks for transactions.
- **Data Structures and Algorithms (A+)**: Covered various data structures (e.g., Stack, Queues, Graphs) and algorithms (e.g., sorting, hashing).

Experience

McMaster University

Jan 2024 – Apr 2024

Teaching Assistant - Data Structures & Algorithms

Hamilton, Ontario

- Led interactive tutorial sessions to reinforce and expand upon concepts covered in lectures, fostering a deeper understanding of data structures and algorithms among students.
- Conducted thorough and consistent evaluations of student assignments, midterm, and final exam in adherence to provided grading rubrics.
- Maintained a commitment to providing timely and constructive feedback to students, helping them understand key concepts and improve their skills.

McMaster Competitive Programming Club Member

Sept 2023 – Present

CyberSci Team Member

Hamilton, Ontario

- Participated in CTFs with the McMaster Competitive Programming Club and CyberSci team, utilizing tools like Kali Linux, Nmap, Metasploit, and Wireshark to solve challenges in cybersecurity, cryptography, threat hunting, reverse engineering, malware analysis, and network traffic analysis.
- Developed skills in incident response, log analysis, password cracking, binary exploitation, attack chain analysis, and networking (including TCP/IP, DNS, and firewall configuration), incorporating lessons from Advent of Cyber 2023, 2024 and SFWRTECH 4NS3 university course.

Environment and Climate Change Canada

Sept 2024 – Present

Scientific Support Technician (Full Stack Developer) - IMWEBs Viewer Project

Burlington, Ontario

- Developed the IMWEBs Viewer, a cross-platform desktop application for visualizing and analyzing watershed data through interactive tables, graphs, and maps, leveraging technologies like Vue.js, Tauri, and Python Flask.
- Built the frontend with Vue.js and a Flask-based Python backend for data processing, queries, and analytics.
- Packaged the app with Tauri as a standalone executable for Windows, macOS, and Linux.
- Authored detailed technical documentation covering methodologies, tools, and implementation guides.

Technical Skills

Languages: Vue, React, HTML, CSS, JavaScript, Python, Haskell, C, Java, Bash, SQL, LaTeX, R, SAS, Prolog

Technologies: Electron, Tauri, VirtualBox, Google Cloud Storage/APIs Usage/VM, SQLite, Tailwind CSS, Astro, Flask, GNU/Linux