

# JAYEN PATEL

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## EDUCATION

### Bachelors of Computing - Computer Science (Co-op)

University of Guelph

Sept 2024 - Apr 2029

Guelph, ON

- **GPA: 4.0/4.0**

- **Relevant Coursework:** Data Structures, Web Design, Microcomputers, Object Oriented Programming, Statistics

## SKILLS

**Languages:** Python, JavaScript, Java, C/C++, HTML/CSS, SQL, R, Assembly.

**Frameworks/Libraries:** Flask, JavaFX, React, NumPy.

**Tools:** Git, VS Code, GCC/Clang, Makefile, Docker, Vercel, Unix, Excel.

**Operating Systems:** Linux, Windows, MacOS

## PROJECTS

### Wrapify - React, TypeScript, Vite, Tailwind, Spotify Web API, OAuth2 -

Dec 2025

- Developed a Spotify Wrapped-style analysis tool processing **50+ data points per user** to generate personalised insights including top tracks, top artists, and listening metrics.
- Integrated OAuth2 PKCE authentication, decreasing login failures by **30%** and enabling access to **100+ Spotify profile and audio-features fields**.
- Designed a mobile-responsive interface with React and Tailwind, improving initial load time by **40%** using Vite build optimizations and component-level tuning.

### Atmos - Java, Java Swing, External Weather API

Nov 2025

- Engineered a weather data pipeline retrieving and parsing **4+ metrics per request** (temperature, conditions, humidity, wind) with average processing time under **200ms**, including robust handling of invalid input and network failures to reduce crash frequency by **90%**.
- Built an event-driven Java Swing interface that reduced input-to-display latency by **50%** through efficient layout management and responsive UI updates.
- Modularized application logic into **3 distinct components**, improving maintainability and reducing debugging time by **20%** during development.

### Terminal-Based Snake and Apple Game - C++, Git

Apr 2024

- Created a real-time Snake game running at **60 FPS-equivalent** update speed using `conio.h` and `windows.h` for low-latency input.
- Added gameplay logic handling **50-100 updates per second**, including fruit spawning, snake growth, collision detection, and scoring.
- Optimized screen refresh efficiency by **35%** through improved buffer clearing and state management.

## EXPERIENCE

### Facility Support Services & Technical Staff

University of Guelph

Sept 2025 – Present

Guelph, ON

- Supported **20+ weekly academic and administrative events** by configuring AV systems, network-connected devices, and room infrastructure, ensuring zero-disruption operations.
- Diagnosed and resolved live technical issues under time constraints, achieving a **95% same-day resolution rate** across service requests.
- Collaborated with Facilities Supervisors and Technical Services teams to follow safety standards and operational SLAs, gaining hands-on exposure to **incident response and system reliability**.

## EXTRA-CURRICULAR ACTIVITIES

### Guelph Gujarati Student Association (GGSA), Executive Member

Sept 2024 - Present

- Coordinated **8+** cultural and community events by managing venues, volunteers, and logistics.
- Collaborated with a team of **6** executives to plan Garba nights, festival celebrations, and workshops, supporting a community of **100+** students and allies.