

Devansh Goyal

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EDUCATION

Queen's University

Kingston, Ontario

Bachelor of Applied Science, Computer Engineering

May 2029

Relevant Coursework: Intro to Computer Programming, Linear Algebra, Data Structures and Algorithms, Physics II, Calculus I

EXPERIENCE

Software Engineering Intern @ Mantra Collab

Mississauga, Ontario

July 2025 - August 2025

- Developed a FinTech application using TypeScript, Next.js, React.js, Node.js, and MongoDB to enable users with expense management, financial literacy, and budgeting tools.
- Enhanced user data security by deploying a JWT authentication service and MongoDB schemas by encrypting fields, effectively storing user information.
- Boosted user engagement by designing an interactive dashboard and engineering a RESTful API for real-time and feasible usage.

Machine Learning Intern @ CoolR Group

Mississauga, Ontario

July 2024 – August 2024

- Fine-tuned and trained a chatbot using company documentation and PyTorch, resulting in real-time and authentic responses to user queries.
- Built a vector search pipeline using the Cohere API and Annoy Index, enabling an efficient and intelligent similarity search system within the company database.
- Engineered a flask backend to handle user queries and incorporate the chatbot model with the vector search pipeline, resulting in a scalable API service for real-time query handling.

PROJECTS

Volunteer Hub

Python, Selenium, React.js, Flask, Tailwind CSS

July 2025

- Built a Flask-based web application to connect high schoolers with extracurricular activities depending on interests and location.
- Used Selenium to web-scrape data, filtering out irrelevant data by targeting keywords and HTML elements, and organized personalized activity data for interactive mapping and recommendation.
- Bridged the gap between students and extracurricular opportunities by providing personalized and easy-to-navigate activities through an interactive map-based frontend.

CiviClinic

Flask, HTML, CSS, PyTorch, TensorFlow

May 2025

- Created CiviClinic, an AI-powered web app designed to improve Canada's healthcare system by reducing the number of unnecessary ER visits through diagnosis through machine learning and intelligent doctor matching.
- Used **TensorFlow** and **PyTorch** libraries to diagnose a patient using image processing and NLP, and the OpenAI API Key to match patients with appropriate doctors, and provide medical advice.
- Reduced ER wait times by classifying non-critical patients using AI, ensuring that 1 in 7 unnecessary ER patients can take care of themselves without the need for medical support.

SKILLS

Languages: Python, Java, JavaScript, TypeScript, HTML/CSS, SQL, C++, C

Libraries and Frameworks: Flask, React.js, Node.js, Next.js, Svelte.js, PyTorch, TensorFlow, NumPy

Databases: MongoDB, PostgreSQL, MySQL, SQLite

Tools: Git, GitHub, PostgreSQL, MySQL, SQLite

Hardware: Arduino, Raspberry Pi, Breadboards, Multimeter, Oscilloscope