

Neil Varshney

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Education

Carleton University

Bachelor of Computer Science

Ottawa, ON

Sept 2023 – Present

- **Field:** Computer & Internet Security
- **CGPA:** 10.75/12 (A-)
- **Awards:** Dean's List (2x), Chalmers Jack MacKenzie Scholarship, Henry Marshall Tory Scholarship
- **Relevant Coursework:** Abstract Data Types & Algorithms, Applied Crypto & Authentication, Intro to Software Engineering, Fundamentals Web Applications, Discrete Structures II

Technical Skills

Front-End Development: JavaScript, TypeScript, React.js, Next.js, Tailwind CSS, CSS, HTML

Back-End Development: SQLite, Flask, FastAPI, RESTful APIs, Node.js, Deno

Languages & Tools: Python, Java, C++, C, GitHub, Git, npm, Unix/Linux, VS Code

Machine Learning & AI: PyTorch, Pandas, NumPy, Scikit-learn, Natural Language Processing (NLP)

Projects

Fake News Detector || *ML, Python, JavaScript, React, SQLite, HTML/CSS*

 [Fake-News-Detector](#) 

- Engineered a fake news classifier using **Python**, **BERT embeddings**, and **logistic regression (scikit-learn)** to analyze text patterns, achieving **98.8%** accuracy and **99.0%** precision on **8,000+** held-out test articles
- Architected **RESTful API** with **JWT authentication** and **SQLite**, implementing secure user registration/login with password hashing and protected endpoints for news analysis requests
- Developed full stack application with **React.js** frontend and **Flask** backend, supporting concurrent user sessions, persistent history tracking, and real-time confidence score visualization for enhanced user engagement

Anime Haven || *LLM, Python, JavaScript, React, FastAPI, SQLite, HTML/CSS*

 [Anime-Haven](#) 

- Developed a **full-stack** anime recommendation chat-bot using **React.js** frontend and **Python FastAPI** backend, serving personalized anime suggestions through natural language processing and AI integration
- Implemented real-time conversational AI features using React Hooks for state management and **GROQ inference engine** achieving **0.80-second** average response times
- Engineered a responsive user interface with real-time typing animations and markdown support, implementing secure user authentication and **SQLite** database integration for persistent chat history

Personal Website || *TypeScript, React, Next.js, Node.js, Tailwind CSS, HTML*

 [Personal-Website](#) 

- Developed a modern, responsive portfolio website using **Next.js** and **Tailwind CSS**, implementing advanced animations and smooth scrolling with Framer Motion and Lenis for enhanced user experience
- Engineered interactive UI components including dynamic typing animations and scroll-triggered reveals, demonstrating proficiency in modern frontend development and animation libraries
- Built a modular, maintainable code base with **TypeScript** and component-based architecture, highlighting software engineering principles and clean code practices

Extracurricular Activities

Carleton Computer Science Society: Member

Sept 2023 – Present

Intermurals Soccer: Participant

Sept 2024 – Present