

Danyal Haji

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EDUCATION

Bachelor of Computer Science Co-op (Cybersecurity)

Carleton University, Ottawa, Ontario

Major CGPA: 11.4/12.0 (A)

Expected Graduation 2028

EXPERIENCE

Vice President of Technology

October 2024 - Present

Carleton Aerospace Astrophysics Radio Club (CA2RC)

Ottawa, Ontario

- Coordinated with a cross-functional team of engineers to design, program, and assemble a 1U high-altitude balloon satellite, using C++ with Arduino to track atmospheric, gravitational, and magnetic field measurements during a full solar eclipse, achieving CA2RC's first stratospheric balloon launch to 30 km altitude
- Rebuilt the outdated club website from an unreliable static Elementor framework to a modern React and TypeScript application to boost engagement, resulting in a 28% increase in member sign-ups through the site
- Organized meeting notes and resources using Google Drive and Notion to enhance project management and workflows

Web Applications Teaching Assistant

September 2024 - Present

Carleton University

Ottawa, Ontario

- Developed a grade calculation tool to help students estimate their progress in 4 courses, reducing stress during the semester
- Guided weekly lab sessions for 200+ students, clarifying JavaScript and SQL concepts to improve participation and understanding, resulting in consistently positive feedback from students
- Collaborated with the professor to create assignments, ensuring student understanding of web development concepts including asynchronous programming, servers, template rendering, forms, databases, and JavaScript libraries

Freelance Web Developer

April 2024 - July 2024

Second Wave Boutique

Kincardine, Ontario - Remote

- Created an engaging 3-page website using static HTML, showcasing the boutique's services with a customer-focused design
- Collaborated with a partner to ensure seamless version control and efficient teamwork via GitHub and Notion
- Delivered a site that attracted over 150 new customers by integrating modern design principles and optimizing for usability

PROJECTS

Nexus

May 2024 - Present

- Led a team of 5 front-end developers to design and implement a social platform for designers and software engineers, incorporating features such as project sharing, task management, and collaborative Q&A to streamline team workflows
- Migrated the website's backend to FastAPI, applying new layers of security and increasing API speed by more than 200%
- Implemented responsive front-end components using React and Tailwind CSS, ensuring seamless UX across all platforms

Landsat Data Accessibility Platform

October 2024

- Developed and deployed a web platform using Flask and Python to simplify access to NASA Landsat 8 and 9 data, featuring satellite overpass notifications, AI insights, and interactive visualizations as a submission to NASA's Space Apps hackathon

NorthStar Interactive

January 2024 - May 2024

- Built an AI-powered productivity platform, implementing GPT-4 to help users plan and schedule goals, visualizing them on a responsive React-based interactive calendar and chat window for task management
- Designed and implemented a secure backend with Express.js, featuring, user authentication with PostgreSQL, robust input and output validation using GPT-3.5 Turbo, and API architecture to ensure smooth chatbot interactions

TECHNICAL SKILLS

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

Technologies: .NET, Node.js, Express.js, React, Next.js, Flask, FastAPI, Sass, Tailwind