

Danyal Haji

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EDUCATION

Bachelor of Computer Science Co-op (Cybersecurity)

CGPA: 3.9/4.0

Carleton University, Ottawa, Ontario

Expected Graduation 2028

EXPERIENCE

Web Applications Teaching Assistant

September 2024 - Present

Carleton University

Ottawa, Ontario

- Guided weekly tutorial sessions for 500+ students, clarifying JavaScript and SQL concepts to improve participation and understanding, resulting in consistently positive feedback from students and increased course engagement
- Developed an open-source grade calculation tool using static HTML and JavaScript, deployed through GitHub Pages, to help students estimate their progress in 4 courses, reducing stress and encouraging self-assessment throughout the semester
- Collaborated with the professor to create assignments, ensuring student understanding of web development concepts including, asynchronous programming, template rendering, forms, databases, and web frameworks such as Deno Fresh

Vice President of Technology

October 2024 - Present

Carleton Aerospace Astrophysics Radio Club (CA2RC)

Ottawa, Ontario

- Rebuilt the outdated club website from an unreliable Elementor framework to a modern React and TypeScript application to boost engagement, resulting in an improved user experience and a 28% increase in member sign-ups through the site
- Collaborated with engineers to design, program, and assemble a 1U balloon satellite in C++ with Arduino, collecting atmospheric, gravitational, and magnetic data during a solar eclipse, achieving CA2RC's first 30 km stratospheric launch
- Organized meeting notes and resources using Google Drive and MS Office to enhance project management and workflows

PROJECTS

Nexus

May 2024 - Present

- Led a team of 5 front-end developers to launch a social platform connecting 500+ designers and software engineers, incorporating features such as project sharing, task management, and collaborative Q&A to improve team productivity
- Redesigned and optimized the back-end using FastAPI with PostgreSQL, achieving a 200% increase in API speed, minimizing database load, and enhancing platform reliability, scalability and stability with advanced security features
- Developed high-performance React and Tailwind components to reduce API calls, leading to more consistent data and a 400% reduction to average page load times, overall enhancing the user experience for a growing user base

Landsat Data Accessibility Platform

October 2024

- Created a Flask-based web platform for NASA's Space Apps hackathon, simplifying access to Landsat 8 and 9 data, including features such as satellite overpass notifications and AI-driven insights, increasing overall data accessibility by 50%
- Designed interactive React components for data visualization using Material UI, delivering a user-friendly design

NorthStar Interactive

January 2024 - May 2024

- Developed an AI-powered productivity platform with a team of 4 developers, helping 5,000+ users efficiently plan and schedule goals through a responsive React-based calendar and intuitive chat window for streamlined task management
- Implemented a secure back-end with Express.js, featuring user authentication with PostgreSQL and robust input/output validation using GPT-3.5 and express-validator; conducting stress tests to simulate 10,000 requests to validate performance

TECHNICAL SKILLS

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

Libraries/Tools: Node.js, Express.js, Deno, React, Next.js, Flask, FastAPI, Sass, Tailwind, Git, Docker