

Danyal Haji

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EDUCATION

Carleton University

Bachelor of Computer Science Honours with Minor in Statistics

Ottawa, Ontario

Expected 2027

EXPERIENCE

Vice President of Technology

October 2024 – Present

Carleton University On Orbit (CUonOrbit)

Ottawa, Ontario

- Rebuilt the outdated club website through **pair programming** to a **React** and **TypeScript** application to boost engagement, resulting in an improved user experience and a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 program and assemble a **1U balloon satellite** in **C++** with **Arduino**, collecting atmospheric and gravitational data during a solar eclipse, achieving CUonOrbit's first **30 km** stratospheric launch
- Organized meeting notes and resources using **Google Drive** and **Notion** to enhance project management

Web Applications Teaching Assistant

September 2024 – May 2025

Carleton University

Ottawa, Ontario

- Led weekly tutorial sessions for **700+ students**, clarifying **JavaScript** and **SQL** concepts to improve participation and understanding, resulting in positive feedback from students and increased course engagement
- Developed an **open-source** grade calculation tool using **HTML** and **JavaScript**, deployed through **GitHub Pages**, to help students estimate their progress in 4 courses, reducing student stress throughout the semester
- Collaborated with the professor to create assignments, ensuring student understanding of web development concepts including **asynchronous programming**, **databases**, and web frameworks such as **Deno Fresh** and **Express.js**

PROJECTS

Colliseum | *FastAPI, React, PostgreSQL, Tailwind*

May 2024 – Present

- Led a team of **5 front-end developers** to launch a social platform connecting **1,000+ software engineers**, incorporating features such as project sharing, task management, and collaborative Q&A to improve productivity
- Redesigned and optimized the back-end using **FastAPI** with **PostgreSQL**, achieving a **200% increase** in API speed, minimizing database load, and enhancing platform scalability and stability with advanced security features
- Developed high-performance **React** components to reduce API calls, leading to more consistent data and a **400% reduction** in average page load times, overall enhancing the user experience for a growing user base

Landsat Lab | *Flask, React, SQLite, Tailwind, EarthExplorer API*

October 2024

- Created a **Flask**-based web platform for **NASA's Space Apps** hackathon, simplifying access to Landsat 8/9 data, with features such as satellite overpass notifications and **AI-driven** insights, increasing data accessibility by **50%**
- Implemented a secure login system using **SQLite**, facilitating personalized satellite overpass notifications, custom user uploads, and streamlined authentication, which enhanced both user engagement and platform performance
- Designed and developed **10+** interactive **React** components for data visualization, styled with **Tailwind** for specific functionality, increasing platform accessibility and reducing overall code bloat

NorthStar Interactive | *Express.js, React, PostgreSQL, OpenAI API*

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 task management
- Implemented a secure back end using **Express.js**, featuring user authentication and robust input/output validation with **GPT-3.5**, conducting stress tests to simulate **5,000 requests** to verify API performance
- Implemented a chat history storage system in **PostgreSQL** to save user conversations, reducing reliance on the OpenAI API for repeated queries and cutting API costs by **40%**, improving data retrieval efficiency

TECHNICAL SKILLS

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

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

Developer Tools: Git, Docker, Linux, PostgreSQL, VS Code, PyCharm, IntelliJ, Eclipse