

# 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

September 2024 – August 2025

*Carleton University On Orbit (CUonOrbit)*

*Ottawa, Ontario*

- Collaborated with engineers to program assemble, and deploy a **1U balloon satellite** in **C++** with **Arduino**, collecting atmospheric data during a solar eclipse, achieving CUonOrbit's first **30 km** stratospheric launch
- Rebuilt the outdated club website through **pair programming** into a multi-page **React** and **TypeScript** application to boost engagement, resulting in improved accessibility and user experience for **300+ members**
- Organized meeting notes and resources using **Google Drive** and **Notion** to enhance project management

### Full Stack Developer

May 2024 – May 2025

*Colliseum*

*Virginia, United States - Remote*

- Led a team of **5 front-end developers** to launch a social web platform connecting designers with developers, implementing features such as project sharing, task management, and discussion threads to improve productivity
- Designed and maintained relational database schemas in **PostgreSQL**, implementing normalized tables, foreign key constraints, and indexed queries to support authentication, user-generated content, and persistent data
- Implemented and organized **Next.js server and client components** to manage data fetching, rendering, and state, improving performance, maintainability, and separation of concerns across the application

### Web Applications Teaching Assistant

September 2024 – April 2025

*Carleton University*

*Ottawa, Ontario*

- Led weekly tutorial sessions for **100+ students**, clarifying **JavaScript** and **SQL** concepts to improve participation and understanding, resulting in positive student feedback and higher 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 and provide a practical example of DOM manipulation
- Collaborated with the instructor to create assignments covering **asynchronous programming**, **databases**, and **web frameworks** (Deno Fresh, Express.js), ensuring students gained experience with web development concepts

## PROJECTS

### Metalocked | *Next.js, PostgreSQL, Tailwind*

October 2025

- Built a full-stack task tracking web application using **Next.js** and **PostgreSQL**, implementing **Supabase authentication**, row-level security policies, and persistent user task data with **role-based access control**
- Designed and queried **normalized relational tables** using **SQL** to track tasks and deadlines, applying discrete scoring logic based on missed or completed daily and weekly tasks to enable consistent **data validation**
- Deployed a public development build on **Vercel** and onboarded external users, supporting multi-user interactions, state management, and responsive UI components in a production-like environment

### 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
- 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

## TECHNICAL SKILLS

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

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

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