

# Nabeel Rouhani

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## EDUCATION

<b>Carleton University</b> <i>Bachelor of Computer Science Honours, Management and Business Systems Stream, CO-OP</i>	2023 – Present Ottawa, ON
– <b>Awards:</b> 2nd Place, cuHacking 2025, Carleton Impact Challenge. Recipient of a merit-based scholarship. – <b>Coursework:</b> Data Structures & Algorithms, Operating Systems, Database Management, Web Applications.	

## TECHNICAL SKILLS

**Languages:** C++, C, Python, Java, JavaScript, TypeScript, HTML5, CSS3, SQL, XML.

**Frameworks:** React, React Native, Flutter, Node.js, JavaFX, MongoDB, SQLite, Git, Linux, WordPress, Elementor.

## EXPERIENCE

<b>Embedded Systems Engineer</b> <i>CUonOrbit - Carleton University</i>	September 2025 – Present Ottawa, ON
– Developing embedded C++ software for the HAB-3 (High-Altitude Balloon) to sample 6-axis MPU-6050 IMU data via I <sup>2</sup> C for in-flight monitoring and persistent, timestamped telemetry logging. – Leveraging HAB-3 as a hardware-software testbed to refine reusable C++ modules for sensor readout, telemetry logging, and fault handling, and to validate I <sup>2</sup> C-based hardware for integration into the <b>Kâhkâkiw-Sat CubeSat</b> , enabling atmospheric monitoring and ML image compression over a LoRa-based downlink.	
<b>Software Implementation Intern</b> <i>Saudi Optics House</i>	June 2024 – August 2024 Jeddah, Saudi Arabia
– Engineered the company's first <b>integrated database</b> and point of sale system, streamlining operations across a factory, two warehouses, and seven branches. – Led collaboration with management and vendors to deliver a tailored system adoption within 6 weeks.	
<b>Assistant Web Developer</b> <i>Bahá'í International Community</i>	January 2023 – September 2023 Remote
– Collaborated with developers to maintain and <b>deploy full-stack websites</b> implementing DatoCMS, streamlining content updates, fixing bugs, and optimizing SEO performance across a portfolio of websites.	
<b>Refugee Camp Volunteer</b> <i>Beit Al-Weibdeh</i>	December 2022 – June 2023 Amman, Jordan
– Collected and distributed <b>humanitarian aid</b> for displaced families during the Turkish-Syrian earthquake crisis in coordination with the Jordan Hashemite Charity Organization (JHCO).	

## PROJECTS

<b>MithqalCalculator.com</b>	Deno 2, REST APIs, TypeScript, JavaScript, CSS, HTML
– Built a full-stack app with Deno 2 and REST APIs to fetch metal prices and currency exchange rates. – Designed a robust back-end with API error handling (fallbacks, 5-minute caching, async race-condition guards) and a multilingual front-end; the deployed static version averages <b>1,500 unique visits per month</b> .	
<b>Library Management System</b>	C++, SQLite, Qt Widgets
– Engineered a modular <b>C++/Qt Widgets</b> library management system with role-based access control and a layered architecture separating UI, service logic, and repositories, enabling loose coupling and extensibility. – Implemented a local SQLite database and a Singleton-style repository manager to centralize data access and maintain consistent state for items, loans, and holds across sessions.	
<b>Image Blocker Extension</b>	JavaScript, CSS, HTML, Manifest V3
– Developed a Chrome extension that blocks images at both the <b>network</b> (declarativeNetRequest API) and <b>DOM levels</b> (MutationObserver) as a failsafe to remove matching images and CSS background-image assets. – Designed a popup UI to manage a persistent blocklist stored in chrome.storage.local (add/remove/clear), validate inputs, and support JSON import/export; synced updates via runtime messaging to refresh rules in real time.	