

Nabeel Rouhani

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EDUCATION

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

EXPERIENCE

Embedded Systems Engineer <i>CUonOrbit - Carleton University</i>	September 2025 – Present Ottawa, ON
– Engineering embedded C++ software for the HAB-3 (High-Altitude Balloon) to sample 6-axis MPU-6050 IMU data via I ² C for in-flight monitoring and persistent, timestamped telemetry logging. – Leveraging HAB-3 as a hardware-software testbed to refine reusable C++ modules for I/O, logging, and fault handling while validating the hardware stack for integration into the Kâhkâkiw-Sat CubeSat , contributing to early wildfire detection efforts in Canada through atmospheric monitoring and a LoRa-based downlink.	
Software Implementation Intern <i>Saudi Optics House</i>	June 2024 – August 2024 Jeddah, Saudi Arabia
– Deployed the company's first integrated database and point of sale system with barcode based inventory, provisioning Zebra label printing and scanning across 10 sites. – Served as the primary liaison between management and the software vendor, translating operational needs into requirements, aligning scope, resolving issues, and coordinating implementation within 6 weeks.	
Assistant Web Developer <i>Bahá'í International Community</i>	January 2023 – September 2023 Remote
– Collaborated with developers to maintain and deploy full-stack websites using DatoCMS, streamlining content updates, fixing bugs, and improving SEO performance across a portfolio of websites.	
Refugee Camp Volunteer <i>Beit Al-Weibdeh</i>	December 2022 – June 2023 Amman, Jordan
– Collected and distributed humanitarian aid for displaced families during the Turkish-Syrian earthquake crisis in coordination with the Jordan Hashemite Charity Organization (JHCO).	

PROJECTS

MithqalCalculator.com	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 1,500 unique visits per month .	
Library Management System	C++, SQLite, Qt Widgets
– Engineered a modular C++/Qt Widgets 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.	
Image Blocker Extension	JavaScript, CSS, HTML, Manifest V3
– Developed a Chrome extension that blocks images at both the network (declarativeNetRequest API) and DOM levels (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.	

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.