

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
<ul style="list-style-type: none">– 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 - C&DH <i>CUonOrbit - Carleton University</i>	September 2025 – Present Ottawa, ON
<ul style="list-style-type: none">– Engineering embedded C++ software for the HAB-3 (High-Altitude Balloon 3.0) to sample 6-axis MPU-6050 IMU data via I²C for in-flight monitoring and persistent, timestamped telemetry logging.– Leveraging HAB-3 as a hardware-software testbed to refine reusable 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
<ul style="list-style-type: none">– 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
<ul style="list-style-type: none">– 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
<ul style="list-style-type: none">– 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
<ul style="list-style-type: none">– 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
<ul style="list-style-type: none">– 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
<ul style="list-style-type: none">– 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.