

Nabeel Rouhani

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EDUCATION

Carleton University

Bachelor of Computer Science Honours, Management and Business Systems Stream, CO-OP

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.

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

Embedded Systems Engineer

CUonOrbit

September 2025 – Present

Ottawa, ON

- Developing **embedded C++ payload software** for the HAB-3 (High-Altitude Balloon) to sample MPU-6050 IMU measurements for in-flight monitoring and persistently log timestamped telemetry for post-flight analysis.
- Prototyping on a Raspberry Pi to debug I2C communication issues, implement basic fault handling, and confirm stable timestamped logging ahead of the second week of January 2025 launch.

Software Implementation Intern

Saudi Optics House

June 2024 – August 2024

Jeddah, Saudi Arabia

- Engineered the company's first **integrated database** and point of sale (POS) 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.

Assistant Web Developer

Bahá'í International Community

January 2023 – September 2023

Remote

- Collaborated with developers to maintain and **deploy full-stack websites** implementing DatoCMS, streamlining content updates, fixing bugs, and optimizing SEO performance across a portfolio of websites.

Refugee Camp Volunteer

Beit Al-Weibdeh

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 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.