

# Nabeel Rouhani

GitHub.com/r7ni | (416) 568-3123 | nabeel.rouhani@gmail.com | LinkedIn.com/in/nabeelrouhani

## EDUCATION

### Carleton University

2023 – Present

*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

September 2025 – Present

*CUonOrbit*

*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

June 2024 – August 2024

*Saudi Optics House*

*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

January 2023 – September 2023

*Bahá'í International Community*

*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

December 2022 – June 2023

*Beit Al-Weibdeh*

*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 `<img>` 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.