

# Gabriel Dubois

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## Education

### Bachelor of Engineering, Software Engineering

5/2025

Concordia University – Montreal, QC.

Courses: Data Structures & Algorithms, Operating System, Java OOP, Software Process.

## Experience

### Genetec, Inc. – Montreal, QC

5/2023 - Now

#### Software Developer Intern

Full-stack development in a large microservice codebase for the industrial IoT team (**C#**, **.Net**).

- Developed a feature that searches for **Modbus** devices connected to a certain range of **IP addresses and Ports**, retrieves them, and makes them available for the user, **dividing by 10** the number of steps required to add a device.
- Added two plugin factories: one for XML string integration and another for regex-based character substitution, expanding software capabilities and compatibility.
- Collaborated with the team to optimize the plugin's responsiveness, resulting in significant improvements to data serialization and a **60%** reduction in device polling intervals.

### iBwave Solutions Inc. – Montreal, QC

09/2022 – 12/2022

#### Software Developer Intern

Full-stack development on their Web Platform team following Scrum methodology with Azure DevOps and Jira.

- **Doubled** software security by repairing critical security issue by creating **front-end** and **back-end** verifications (**Angular**, **Typescript**, **C#**).
- Increased code coverage by writing comprehensive unit, integration, and automated tests, employing tools like **Selenium** and **SQL**.
- Introduced a search bar and API call methods to filter, send and verify the content of project properties.

## Projects

### JobQuest – [GitHub](#)

01/2023 – 04/2023

- Led team of 7 members overseeing sprint planning, task delegation, and providing support in debugging code and implementing features, ending up with an average mark of **98%** for the project.
- Implemented **CRUD** operations and a robust login system using **Next.JS**, **Express**, **Node.JS** and **MongoDB**.
- Designed the website layout, form pages, and login/signup pages, focusing on delivering a seamless user experience, and deployed the project on **Vercel**.

### CoursesDB – [GitHub](#)

03/2023 – Now

- By focusing on security and password encryption, decreased the risk of identity theft by **50%**.
- Established role-specific permission, enabling administrators to create new courses, while granting users the ability to provide comments, facilitating efficient content management and ensuring an optimized system workflow.
- Enabled server-side rendering, therefore improving the speed of loading times by **65%**.

## Extracurricular

### UpStart – Devpost

02/2023

Created the mockup of a startup where industrial-organizational psychologists would be contracted to help integrate a great work environment in Montreal's companies. Design made with Figma.

## Skills

**Programming:** JavaScript/TypeScript, Python, Java, C#, C++, C, SQL, MongoDB, REST APIs, PHP

**Other:** Next.js, ReactJS, Angular, .NET, Selenium, Tailwind, Node.js, Express, Computer Network

**Interest:** Board Games, Fantasy/Sci-fi, Travel, Alpine ski, Space