

Ryan Guzelian

ryanguzimp@gmail.com (514) 589-4949 Montreal, Canada

Education

Concordia University (GPA: 3.64)

B.Eng in Software Engineering (With Distinction, Co-op)
Montreal, Canada, 2021-2025

Collège de Bois-de-Boulogne

DEC in Computer Science and Mathematics
Montreal, Canada, 2019-2021

Languages English, French, Arabic, Armenian: Fluent

Technical skills

Languages: Java, JavaScript, TypeScript, C#, Python, C++, Bash

Tech Stack: React.JS, Express.JS, React Native, Node.JS, .NET, Entity Framework, RabbitMQ, MassTransit, AWS, JUnit, Jest

Databases: **SQL:** MySQL, PostgreSQL / **NoSQL:** MongoDB

Dev Tools: Git, Postman, JIRA, Docker

Methodology: Test Driven Development, Agile Development

Architectures: Model View Controller, Microservices, Monolithic

Professional Experience

Dormakaba - C# Development Intern

Montreal, Canada May 2024 - Dec. 2024

- Developed and maintained backend **API** calls using **C#** and **.NET** within a microservice architecture, utilizing a **RabbitMQ bus** for communication.
- Collaborated with cross-functional teams to identify and resolve bugs in both **frontend** (Angular JS - TypeScript) and **backend** (.NET - C#) applications.
- Researched compatibility of newer library versions within current software to determine most optimal versions to use, and **gained up to 30% in message throughput**.

Pratt and Whitney Canada - Programmer Analyst Intern

Longueuil, Canada May 2023 - Aug. 2023

- Evaluated emerging technologies** for alignment with business needs and collaborated with cross-functional teams to assess their feasibility and relevance in Pratt & Whitney's application development strategies.
- Analyzed messaging technologies (e.g., **RabbitMQ**, **Amazon SNS**, **SQS**) to improve interservice communications and data exchange through the orchestration and implementation of microservices leveraging **.NET**.
- Contributed insights to application development reference architecture discussions with solution architects in order to **eliminate custom libraries** for market standards.

CAE - Full Stack Developer Intern

Montreal, Canada Sep. 2022 - Dec. 2022

- Revamped an internal **inventory management system** with the help of a senior developer using **React JS**, **.NET** and **SQL** in order to increase usage by factory employees.
- Maintained open and effective **communication with business analysts** to ensure the alignment of web applications with our clients' vision, thus enhancing user satisfaction.
- Fixed various **frontend bugs** in different applications built using **React JS**.

Additional Projects

MedcaConnect

- Integrated **video calling** and **live messaging** features through **Agora** libraries in the **React Native** application.
- Implemented **JWT** authentication to enhance the security of the platform and reduce communication complexity.
- Containerized** multiple services using **Docker** for ease of environment setup across different development environments.
- Created a **scalable microservice architecture**, dividing the platform's functionality over 4 services.

Condo Management System

- Developed a **complete API solution** in **Next JS** containing over **50 API calls**.
- Came up with the full **SQL database schema**, and overseered its hosting on **Supabase**.
- Managed the deployment of the app using **Vercel**.

Exam Attendance Recording System

- Designed and built a hardware board using **Arduino libraries in C++** integrated with a **MiFare card reader**.
- Created a companion **web application** using **React.js** (frontend) and **Express.js** (backend)
- Deployed the solution on **Amazon AWS EC2** for hosting and remote access

Peer-to-Peer Student Help Application

- Developed a **chatting solution** using **WebSockets** which allowed users connected with Google SSO to communicate.
- Created a sliding card component to be used through the UI using **React JS**.
- Implemented **form validation** and **data storage** for the UI form components.