

# MARTIN CHARDENET

SOFTWARE ENGINEER

[martin.chardenet@gmail.com](mailto:martin.chardenet@gmail.com)

+1-438-506-3796

[linkedin.com/in/martin-chardenet](https://linkedin.com/in/martin-chardenet)

[github.com/MCH2001](https://github.com/MCH2001)

## WORK EXPERIENCE

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### Automation Developer Internship

Payfacto

Montreal, QC (May–August 2024)

- Built SQL dashboards that pulled directly from the CRM so recurring reports for upper management no longer had to be rebuilt in Excel by hand saving a weeks worth of work a month.
- Set up a daily email summary for 200+ client accounts so account managers didn't have to manually compile and send updates
- Wrote scripts to sync and clean client data between the CRM and reporting tables, so account managers stopped maintaining shadow Excel copies and we reduced inconsistent values across systems

### Software Engineer

Groupe Bouda

Montreal, QC (September 2025–Present)

- Built JavaScript services and Google Cloud Functions to sync internal tools with Google Sheets and Drive, eliminating manual CSV import/export
- Designed a document-processing workflow using Cloud Storage, Pub/Sub, and Document AI to extract data from PDFs/images into reporting sheets
- Built lightweight internal web tools on top of REST APIs so non-technical staff could trigger processing runs and correct data issues
- Deployed to Cloud Run/Functions with retries, idempotency keys, and Cloud Logging/Error Reporting; processed around 600 documents/week without duplicate runs

## PROJECTS

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### Picasso 1.0 Web Platform

React, Node.js (Express), MongoDB, REST APIs

Academic (2024)

- Worked in a team of 3 to build a full-stack web app inspired by JSPaint where users can create, save, and reopen artwork tied to their accounts
- Implemented the React UI (React Router + Context) for the canvas editor, gallery view, and auth flows, with reusable components and a layout that still works on smaller screens
- Designed MongoDB schemas for users, artworks, and galleries with validation and indexes; stored image data plus metadata to keep gallery loads and lookups fast
- Built a REST API in Express for auth and artwork CRUD with pagination, filtering, input validation, and JSON error responses, secured with JWT

### Angular Chat App with Spring Boot & Firebase

Angular, Spring Boot, REST APIs, JWT, Firebase (Firestore), WebSocket

Academic (2025)

- Built an Angular client with login/register, routing, and a real-time chat UI (rooms, presence, typing indicator, unread message counts) on top of WebSocket
- Designed and implemented a Spring Boot REST API (Controller–Service–Repository) for users, rooms, and messages, with persistence and validation on each request
- Implemented stateless JWT auth with short-lived access tokens, rotating refresh tokens, password hashing (BCrypt), and an Angular HTTP interceptor to attach and refresh tokens automatically
- Deployed the Angular app to Firebase Hosting and the Spring Boot API to Cloud Run/Render

## EDUCATION & TECHNICAL SKILLS

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Université du Québec à Montréal, Montreal, QC

*B.Sc. Computer Science, (2022–December 2025)*

**Programming:** C/C++, Java, Python, SQL, JavaScript, TypeScript; OCaml

**Systems & Networking:** Linux/Unix, POSIX APIs, IPC, Threads, Sockets, HTTP/TCP/IP

**Backend & Data:** Node.js (Express), Flask, REST APIs, JWT, MongoDB

**Frontend & Cloud:** React, Google Cloud Platform (Cloud Run, Cloud Functions, Pub/Sub, Document AI)