

# ALEXANDRE TRENDDEL

Senior software programmer and architect, Montréal.  
Always looking for new ways to build software.

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## Professional experience

### Software Architect, Desjardins Montréal, Québec

From July 2025

Responsible for the design of several APIs related to the authentication process.

- responsible for refining the requirements with business actors;
- use of [Archimate](#) to document the applications and their context;
- I developed several PoC to help my team appropriate new technologies ([Kotlin](#), [Kafka](#), [CosmosDB](#) ...).



### Software Developer, EXFO Montréal, Québec

From June 2023,  2 years

Development of a cloud-based IP monitoring solution:

- development of [Rust](#) based test probes and of an orchestrator based on the [Kubernetes](#) API;
- I co-designed a lightweight test orchestrator in [Rust](#) ;
- I helped design and develop new [Go](#) services ([AWS Neptune](#), Helm, Gitlab CI).



### Analyst-Programmer, Desjardins Montréal, Québec

From September 2021,  2 ans

Consulting Analyst-Programmer at Desjardins for Maplr:

- [Spring Boot](#) REST API development, Azure SQL database;
- I promoted switching to [GitFlow](#), to help support both production patches and feature development;
- in line with this, I **reworked our CI/CD pipeline** to deploy individual pull-requests as independent apps, thus ensuring individual branches were tested in an isolated and reproducible way.



### Full-stack Engineer, SNCF Connect & Tech Nantes, France

From November 2019,  2 years

Development of the (now retired) Oui.sncf iOS app in an agile team:

- iOS development in [Swift](#) (MVVM design pattern, reactive programming using RxSwift);
- helped with production supervision and support (investigated bugs and developed patches);
- I **created a declarative UI framework** inspired by SwiftUI, enabling **faster development**;
- I **studied and redesigned** several legacy core components (Objective-C) of the application.



From December 2016,  3 years

Full-stack web development for Oui.sncf, a subsidiary of SNCF selling train passes in France and Europe:

- micro-services development ([Spring WebFlux](#), MongoDB, RabbitMQ);
- frontend development using [React](#), Redux;
- applied [Domain Driven Design](#) principles.

### Project Manager (Intern), Adfab Montréal, Québec

From April 2018,  4 months

Met with clients to assess their needs and worked closely with the development team.



## Notable non-professional experience

### Q xou816/spot

Development of an open-source **Spotify** client for Linux desktops and mobiles, written in **Rust**, using the Gtk toolkit:

- ⭐2k+ on Github, several recurring contributors;
- multithreaded application using the **Tokio** framework;
- designed a Redux-inspired architecture.

*No longer maintained due to lack of time.*

## Education

### Engineering student 📍 Nantes, France

2016 – 2019

A selective French school of engineering conferring a diploma equivalent to a Master's Degree.  
Specialization in Applied Mathematics and Data Science.



## Interests

Cooking enthusiast, year-round runner, avid fiction reader and indie rock fan.

**References available upon request.**