

Alexandre Émond

Backend-Oriented Software Developer — .NET, Distributed Systems



📍 Chicoutimi, Saguenay, QC 📞 (418) 520-0999 ✉ alexandre@aedev.pro

🌐 aedev.pro 🐙 GitHub 🔗 LinkedIn

Professional Summary

Backend-oriented software developer specializing in .NET and distributed systems, with hands-on experience designing backend services, lifecycle-driven architectures, and REST APIs. Currently completing a Computer Science Technology DEC with a 99% GPA. Seeking backend or full-stack internship or junior developer position.

Technical Skills

- Backend Development:** C#, ASP.NET Core, Java, Spring Boot, REST APIs, GraphQL, WebSocket
- Databases:** PostgreSQL, MySQL, MSSQL, MongoDB — schema design, indexing, migrations, performance tuning
- Infrastructure & DevOps:** Docker, CI/CD, GitHub Actions, Linux, Apache, Nginx, Bash
- Supporting Skills:** Blazor, React, TypeScript, HTML/CSS, SwiftUI, MAUI, xUnit, NUnit, Git

Selected Engineering Projects

Drift — Architect & Lead Developer

2025–Present

- Designed and implemented backend services using ASP.NET Core and PostgreSQL on Linux.
- Built a lifecycle-driven distributed state machine ensuring deterministic transitions and guaranteed data deletion.
- Implemented background worker services, rule engine processing, and notification dispatching.
- Defined system architecture, service boundaries, and data models following clean architecture principles.

Collaborative Multi-Device Platform — System Architect & Developer

2025–Present

- Designed backend APIs and synchronization services supporting cross-device state consistency.
- Implemented modular architecture enabling independent evolution of backend and client components.
- Focused on distributed system design, lifecycle management, and scalability.

Education

DEC – Computer Science Technology (Ongoing)
Collège LaSalle, Montréal — 2023–2026
99% GPA — Top-ranked student in program

Prior studies: Carpentry Diploma (2009), Mechanical Engineering Technology (2007–2009)

backend developer, .NET, ASP.NET Core, distributed systems, REST APIs, PostgreSQL, Docker, system architecture, backend engineering, Linux, CI/CD

Professional Experience

Baffinland Iron Mines (ArcelorMittal) — Mechanical Maintenance Technician

Mary River, Nunavut • 2019–2023

- Performed troubleshooting, maintenance, and repair of industrial systems under strict operational constraints.
- Executed preventive maintenance and documented operations using CMMS systems.
- Applied root cause analysis and coordinated with multidisciplinary teams.

Nuera Industrial — Industrial Mechanic

Canada-wide • 2016–2019

- Diagnosed and repaired industrial mechanical systems across multiple environments.
- Worked independently under operational and scheduling constraints.
- Documented technical findings and communicated corrective actions.

RLM Construction — Journeyman Carpenter

Québec • 2009–2016

- Executed complex construction projects following technical plans and specifications.
- Coordinated workflows, materials, and multidisciplinary teams.