

Luis Soto Fernandez

Senior C# / .NET Backend Developer | Full Stack Consultant

Montreal, QC | 1-514-816-2387 | lfernandez.republic@gmail.com | linkedin.com/in/fullstackprogrammer | English · French · Spanish

C# / .NET backend specialist with 14+ years of production C# experience across financial services (Desjardins, BDC, Croesus, Raymond Chabot, Technicost / Credit Union), telecom (Bell), and industrial SaaS (Sidel). Deep expertise in multithreaded programming, refactoring legacy systems, performance optimization, REST / WCF / SOAP services, and SQL. Equally comfortable in enterprise monoliths and microservice architectures. Fluent English & French. Available on-site in Montreal.

CORE TECHNICAL SKILLS

Core Competency	Yrs	Representative Clients / Projects
C# / .NET (Core, MVC, WebApi, Razor, Entity Framework, Dapper)	14	Bell, Desjardins, BDC, Croesus, La Vie en Rose, Sidel, ACI, Raymond Chabot, Keolis, Traffic Tech, Alithya, Technicost
Multithreading, concurrent programming, performance tuning	10+	Desjardins (EOM Dashboard, GPRD), In Situ Simulation (3D engine), Tarot-7 (serverless async)
SQL (MS SQL, Oracle, PostgreSQL) — query optimization, schema design	14	Bell, Desjardins, BDC, La Vie en Rose, Sidel, ACI, Raymond Chabot, Technicost
WCF, SOAP, REST API, Swagger — service design	10+	Desjardins (WCF), Traffic Tech (SOAP), Bell (REST / WebApi), ACI, Keolis, Raymond Chabot
Refactoring & code quality — OOP, Design Patterns (Repository, Factory, CQRS, Strategy, Observer)	14	All engagements — architecture-first approach
NHibernate / Entity Framework / Dapper — ORM & data access layer	10+	Bell, Desjardins, ACI, Keolis, La Vie en Rose, Technicost, Alithya
WinForms / Desktop apps, C++ (DirectX, OpenGL)	10	Disney (PC/Mac game engines), In Situ Simulation (ISS3D real-time 3D)
Azure DevOps CI/CD, Git, unit & integration testing (TDD/BDD)	10+	Bell, Desjardins, BDC, Croesus, Sidel, ACI, La Vie en Rose
Azure Functions (HTTP Trigger, SQL tasks)	3	Bell, Raymond Chabot
Frontend (Angular, React, TypeScript, JavaScript ES6) — when required	10	Desjardins, Croesus, Bell, La Vie en Rose, ACI, Keolis, Traffic Tech

PROFESSIONAL EXPERIENCE

Croesus Finansoft Inc. Senior Full Stack Analyst-Programmer (Contract) Montreal | May 2025 – Jul 2025

Expert: Web application solution for portfolio management.

- Angular v19, TypeScript, RxJs, and C# programming within a microservices architecture (AWS)
- Applied Repository and CQRS patterns for maintainable, testable service layer
- Containerized backend services with Docker; participated in Azure DevOps CI/CD pipelines
- Wrote and maintained unit tests integrated into the build pipeline

Stack: C# · .NET Core · PostgreSQL · Angular 19 · TypeScript · RxJs · Docker · AWS · Azure DevOps

BDC – Business Development Bank of Canada Senior Full Stack Analyst-Programmer

(Contract)Montreal | Jun 2024 – Feb 2025

ReClick: Web application for managing and planning loans to Canadian entrepreneurs.

- Designed and developed new features across backend (C#, Java, Mendix) and database (SQL, Docker)
- Applied Factory and Repository patterns for scalable, independently deployable modules
- Wrote unit tests; contributed to Agile/Scrum sprint cadence

Stack: C# · Java · Mendix · SQL · Docker · Azure DevOps

Desjardins Bank Senior Full Stack Analyst-Programmer (Contract)Montreal | Jan 2022 – May 2024

Compliance, Cookies, Disnat (online brokerage), Migration, CMS Disnat, VMD Conseils, Microsite CMS, Espace Courtaage.

- Developed and maintained .NET backend services and REST integrations under Kanban / Agile cadence
- Architected React + Redux migration from legacy AngularJS application; applied CQRS, Repository, Observer patterns
- Multithreaded and asynchronous C# programming for EOM Dashboard and GPRD modules
- Participated in Azure DevOps CI/CD pipelines; wrote unit tests for Angular components and C# services
- Earlier engagement (Jun 2014 – Feb 2015): WCF, multithreading, Oracle, MVC4 — EOM Dashboard, GPRD, LogUserSession

Stack: C# · .NET · MVC5 · Razor · Entity Framework · WCF · SQL · Oracle · Angular (v13) · React · Redux · TypeScript · AngularJS · NgRx · Azure DevOps

Bell Canada Senior Full Stack Analyst-Programmer (Contract)Montreal | Jan 2020 – Jan 2022

Libra: resource forecasting app. RTC: technical work tracking app.

- Designed and built the full backend architecture: .NET Core C# WebApi services + SQL (Dapper)
- Active Directory integration in C# for group and user-rights management
- Developed Azure Functions (HTTP Trigger) for backend processing and SQL task automation
- Identified and refactored underperforming SQL queries and C# services; improved application response time
- Applied Repository and Strategy patterns throughout backend services

Stack: C# · .NET Core · WebApi · SQL · Dapper · Azure Functions · JavaScript ES6 · Bootstrap · Plotly.js · Azure DevOps

La Vie En Rose Senior Full Stack Analyst-Programmer (Contract)Montreal | Sep 2019 – Jan 2020

LVER Data Importer: product and employee data migration. Web Return Orders: online and in-store purchase returns.

- Full stack design, architecture, and development: .NET Core C#, Angular, Entity Framework, WebApi, SQL
- Developed Azure Functions (HTTP Trigger) for backend processing and SQL tasks

Stack: C# · .NET Core · Angular · Entity Framework · WebApi · SQL · Azure DevOps

Sidel Senior Full Stack Analyst-Programmer (Contract)Montreal | Oct 2018 – Apr 2019

EIT (Efficiency Improvement Tool): Web and mobile application for 24/7 remote control of food production robot systems.

- Designed REST service architecture for 24/7 remote control of food production robot systems
- Refactored underperforming backend modules; applied OOP design patterns for scalable service layer

Stack: C# · .NET Core · MVC5 · Razor · SQL · Angular (v7) · JavaScript · jQuery · Kendo · Azure DevOps

ACI – Airports Council International Senior Full Stack Analyst-Programmer (Contract)Montreal | Jun 2017 – Dec 2017

2017 – Dec 2017

- MVC4 REST service architecture; modular data-analytics backend with OOP design patterns — Aerostats platform
- C# · SQL (Dapper) · JavaScript · jQuery · Kendo · Bootstrap — full stack development

Raymond Chabot Grant Thornton *Senior Full Stack Analyst-Programmer (Contract)* Montreal | Aug 2016 – Dec 2016

E-Accounting Online: financial statements and invoice management platform.

- Architected and developed mobile receipt-import module (C#, Entity Framework, WebApi, Azure Functions)
- Implemented secure secret management via Azure Vault (API keys, passwords, DB credentials)
- OAuth2 / OpenID Connect authentication and authorization layer

Stack: C# · Entity Framework · SQL · Azure Functions · WebApi · AngularJS · Azure DevOps

20-20 Technologies / IKEA *Senior Full Stack Analyst-Programmer (Contract)* Montreal | Jan 2016 – Mar 2016

- IKEA Planner: 3D web application used in IKEA stores worldwide for kitchen and bedroom design
- JavaScript, CSS, and HTML programming and bug fixing for the Japanese market

Keolis / Orléans Express *Senior Full Stack Analyst-Programmer (Contract)* Montreal | Aug 2015 – Dec 2015

- Online ticketing and ticketing management web/mobile applications — QR code module, reporting module for ticket sales data analysis
- C# · Entity Framework · SQL · JavaScript · AngularJS · Bootstrap — full stack development

Traffic Tech *Senior Full Stack Analyst-Programmer (Contract)* Montreal | Mar 2015 – Jun 2015

- TTSLs: Web application for Canadian freight brokers with real-time quotes — real-time quote module, SOAP services
- C# · SOAP · XML backend + JavaScript · AngularJS · Bootstrap frontend

Alithya (IT Consulting) *Senior Full Stack Analyst-Programmer (Contract)* Montreal | Jun 2013 – Jun 2014

- CPresto and QuizMan: full stack design, architecture, and development — C# WebApi, Entity Framework, SQL, PhoneGap, AngularJS

Technicost / Canadian Credit Union *Senior Full Stack Analyst-Programmer (Contract)* Montreal | Mar 2011 – May 2013

- Personal Balance Sheet and QuickQuote: C#, WebApi, Entity Framework, SQL, Telerik, JavaScript

In Situ Simulation (ISS) — Founder & CEO *Founder, Lead Developer & Manager* Montreal | Mar 2002 – Jan 2011

ISS Foresight: application for creating real-time 3D virtual models for land use planning projects.

- Founded and ran a 15-person multidisciplinary technology company for 9 years: 5 programmers, 5 graphic designers, 4 landscape architects, 1 sales — full P&L responsibility
- Architected and built the ISS Foresight real-time 3D rendering engine from scratch — C++, C#, OpenGL, multithreading
- Applied advanced OOP and design patterns for the real-time 3D rendering engine

Stack: C++ · C# · SQL · OpenGL · Multithreading

My Virtual Mannequin / Disney *Lead C++ Programmer & Director of Programming* Montreal | Jun 1996 – Nov 2001

11 PC/Mac titles: Cinderella's Dollhouse, Atlantis the Lost Empire, Cosmopolitan Virtual Model, and others.

- Directed a team of 15 programmers across 11 concurrent PC/Mac titles
- Lead architect on all game engines — C++, DirectX, Lingo — OOP design patterns throughout

EDUCATION

College Diploma — Management Information Systems | Polytechnic of Valparaíso, Chile

Complemented by 29+ years of continuous professional practice — 16+ software products shipped to market.