

Lou Chang

Backend-Focused Full-Stack Engineer | .NET / Cloud

Toronto, ON, Canada

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Highlights

- Backend-leaning Full-Stack Engineer with 5+ years of experience building, maintaining, and evolving production web applications across healthcare, finance, and B2B domains, with a background spanning both legacy and modern .NET-based systems.
- Strong focus on data integrity, performance optimization, and backend API design, developed through hands-on work with SQL-centric systems, legacy ASP.NET stacks, and brownfield production platforms under real operational constraints.
- Trusted to debug and stabilize live environments, refactor legacy code safely, and deliver improvements on schedule, including reducing critical report execution time from minutes to seconds in data-heavy systems.

Experiences

Self-employed (Remote)

Independent Software Engineer (Contract)

Toronto, ON, Canada

Sep. 2024 - Present

- Designed a lightweight Angular-based dashboard for real-time sensor monitoring, prioritizing clarity and responsiveness over unnecessary tooling complexity.
- Enabled fully dynamic DOCX form generation where user input could safely expand tables or wrap across multiple lines without breaking layout or styles, turning rigid templates into data-driven documents suitable for real-world form submissions.

Duotify Inc.

Web Development Engineer

Taipei, Taiwan

Jun. 2020 - Jan. 2024

- Identified performance bottlenecks caused by ORM-based data transformation and intentionally shifted critical reporting logic to SQL Server stored procedures, trading abstraction for performance and predictability, reducing execution time from 3 minutes to 4 seconds while preserving data integrity.
- Designed and delivered 3 backend API services with CI/CD pipelines, balancing deployment speed and release stability by standardizing build and deployment workflows, reducing setup time by 30 minutes per release without increasing production risk.
- Evaluated trade-offs between cloud portability and delivery timelines when modifying 2 existing API services, establishing a lightweight AWS test environment (EC2, S3, RDS) and completing project handover 5 days ahead of schedule.
- Maintained and evolved 4 brownfield production platforms built on .NET across healthcare, finance, and biotech domains, delivering 10+ features through safe refactoring and incremental improvements while minimising operational risk.

Unitech Computer Co., Ltd.

ERP Application Development Engineer

Taipei, Taiwan

Mar. 2019 - Jun. 2020

- Worked on legacy ASP.NET MVC 3 and AngularJS systems within brownfield B2B applications, developing a strong foundation in SQL Server-centric data modelling and query optimisation while maintaining production stability.
- Independently evaluated newer frontend approaches by prototyping a B2B platform using Angular 8, balancing modernization efforts against delivery risk in an enterprise environment.
- Resolved recurring production issues across internal and external systems by prioritizing correctness and maintainability over short-term fixes, establishing disciplined debugging and refactoring habits.

SYSTEX UCOM Information Technology Co., Ltd.

InternShip

Taipei, Taiwan

Jul. 2018 - Mar. 2019

- Took ownership of a C#-based module during an internship project, making implementation decisions and coordinating with teammates while working with ASP.NET WebForms and SQL Server, building an early understanding of stateful web architectures and long-term maintenance trade-offs.

Certification

I156-7085 Azure Fundamentals (AZ 900), Microsoft

Feb 2022

Education

Seneca Polytechnic

Diploma, Computer Programming

Toronto, Canada

May. 2024 - Aug. 2025

Hwa Hsia University of Technology

Bachelor's, Department of Information Management

New Taipei City, Taiwan

Jun. 2018 - Aug. 2020

Technologies

Programming Languages

C#, TypeScript, JavaScript, Python, Go

Backend & Data

.NET (ASP.NET Core / MVC / WebForms), Entity Framework Core, SQL Server, PostgreSQL

Frontend

Angular (including AngularJS)

Cloud & Delivery:

Azure App Service, Azure DevOps, AWS (EC2, S3, RDS), Docker