

Yuchen (David) Li

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SUMMARY

Full Stack Software Engineer (3+ years) specializing in scalable .NET, Angular, and SQL applications with a focus on performance, architecture, and continuous growth.

EDUCATION

- **University of Waterloo**
Bachelor of Computer Science – Co-operative Program (Honours) *Sept 2018 – Aug 2023*
 - **Awards:** Top 25% – Canadian Computing Competition (Senior Division, 2017)

EXPERIENCE

- **Full Stack Software Engineer (Intern → Full-time)** Sep 2022 – Apr 2023 (Intern), Oct 2023 – Present
PINpoint Information Systems Inc. *Burlington, ON, Canada*
 - Optimized service and testing performance: enhanced multithreading in the **Database Activity Replay tool** to boost performance by over **10×**, parallelized automated tests cutting runtime by **90%**, and refactored database operations to async calls.
 - Developed and deployed a **Visual Studio** custom build task that automates model generation across service and front-end tiers, streamlining workflows.
 - Refactored and optimized **SQL stored procedures** to eliminate cartesian explosion issues and improve query efficiency, significantly enhancing overall system responsiveness.
 - Served as **Scrum Master**, facilitating daily standups, sprint planning, and retrospectives, improving collaboration and delivery cadence.
 - Enhanced UI/UX by designing a feedback interface (**C#/WPF**) and refactoring front-end components into reusable modules (**Angular/HTML/JavaScript**), reducing development time and improving maintainability.
 - Integrated automated performance metrics with **Grafana dashboards**, improving system monitoring and enabling proactive issue detection.
 - Built a configurable token processing mechanism to handle diverse customer requirements, increasing system flexibility.
 - Mentored and onboarded multiple **Co-op students** and a full-time developer, accelerating their technical growth and team integration.
 - Authored and maintained detailed technical documentation and API references, supporting onboarding and cross-team collaboration.
- **Software Engineer (Intern)** Jan 2020 – Apr 2020
JSI Telecom *Kanata, ON, Canada*
 - Worked as part of the **UI/UX** team, contributing to interface design and user experience improvements.
 - Developed **cross-functional collaboration skills** by working closely with QA, product, and design teams to align UI/UX requirements.
 - Gained foundational experience in **Agile Scrum** methodology, including sprint-based development cycles and iterative design processes.

TECHNICAL SKILLS

Languages:	C#, SQL, JavaScript, TypeScript, Java, C++, C
Frontend:	WPF (Desktop), Angular, HTML5/CSS3
Backend:	.NET Core, ASP.NET Core Web API, Entity Framework Core
Database:	SQL Server, Query Optimization, Stored Procedures, Indexing, Table Design
Architecture:	Microservices, Domain-Driven Design, Repository Pattern, MVVM (WPF)
Security:	OAuth 2.0, JWT, OpenID Connect
Tools:	Azure DevOps, Git, PowerShell, Visual Studio, Postman, SSMS, IIS Express, Linux

PROJECT

File Organizer (2024): Developed a tool to automate image sorting and folder management using *C#, .NET Core*