

# Yuchen (David) Li

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## SUMMARY

Full Stack Software Engineer with 3+ years of experience building scalable enterprise applications using **.NET/Angular**, **SQL**, and **domain-driven design**. Passionate about **performance**, **system design**, and crafting maintainable software.

## 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*
  - **Owned end-to-end delivery** of key product features, coordinating cross-functional discussions between design, QA, and customer stakeholders to achieve on-time, production-ready releases.
  - **Enhanced system performance and scalability** by implementing multithreaded database replay tools, increasing throughput by over **10×**.
  - **Refactored SQL stored procedures** to eliminate cartesian explosion issues, significantly improving query efficiency and system responsiveness.
  - **Automated cross-tier model generation** through a custom Visual Studio build task, reducing manual overhead and ensuring consistency between backend services and Angular modules.
  - **Optimized front-end UI/UX** by modularizing Angular components, accelerating feature development and improving maintainability.
  - Served as **Scrum Master**, facilitating daily standups, sprint planning, and retrospectives to enhance collaboration and delivery cadence.
  - Integrated automated performance metrics with **Grafana dashboards**, improving observability and enabling proactive issue detection.
  - **Mentored and onboarded** junior developers, accelerating their integration and strengthening technical proficiency.
- **Software Engineer (Intern)** Jan 2020 – Apr 2020  
*JSI Telecom* *Kanata, ON, Canada*
  - Contributed to the **UI/UX team** to enhance usability and interface consistency across key product modules.
  - Collaborated cross-functionally with QA, product, and design teams to align requirements and deliver features in an **Agile Scrum** environment.
  - Gained foundational experience in iterative development, sprint planning, and stakeholder communication.

## TECHNICAL SKILLS

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

## PROJECTS

- **File Organizer:**
  - Developed a Windows desktop tool using **C# and .NET Core** to automate image sorting and folder management.
  - Implemented rule-based classification and metadata extraction to organize images by orientation and content, reducing manual sorting time by **95%**.