

Jinming Zhang

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SUMMARY

Full-Stack Software Engineer (Backend-Focused) and University of Waterloo Computer Engineering graduate, currently specializing in the Software Systems Developer program at BCIT. Experienced in architecting scalable distributed systems using ASP.NET Core and C# and Spring through internships at Oracle, TELUS, and Maple Leaf Foods, with additional cloud-native development experience using Node.js, TypeScript, and AWS. Strong foundation in backend architecture, performance optimization, and building production-ready SaaS and real-time applications.

EDUCATION

University of Waterloo | Bachelor of Applied Science, **Computer Engineering** | **2015 – 2020**

British Columbia Institute of Technology | Full Time Certificate, **Software Systems Developer** | **Expected 2026**

EXPERIENCE

Oracle Corporation – Software Developer Intern

Toronto, ON | Sep 2019 – Dec 2019

- Streamlined SSL certificate provisioning workflow for Oracle Eloqua, increasing onboarding reliability and reducing manual intervention in client setup.
- Optimized asynchronous command queue logic, reducing redundant database entries and improving system performance.
- Designed and integrated Selenium-based end-to-end regression test suites, reducing manual QA effort by 40% and improving release confidence.
- Resolved escalated L3 client issues, ensuring platform stability and compliance with enterprise standards.
- Technologies: C#, SQL Server, Selenium**

Maple Leaf Foods – Developer Intern, Infrastructure Team

Mississauga, ON | Sep 2018 – Dec 2018

- Designed and implemented a web-based dashboard to monitor SAP systems and databases, providing start/stop control and usage visualization.
- Automated storage forecasts and system management tasks, improving operational efficiency and reducing manual oversight.
- Re-architected backend data retrieval queries and caching logic, reducing dashboard load time from 25s to 5s (80% performance improvement).
- Technologies: HTML, CSS, JavaScript, jQuery, PHP, MySQL, Shell**

TELUS Corporation – Programmer Analyst Intern, IT HFS

Mississauga, ON | Jan 2018 – Apr 2018

- Enhanced internal Label Management Tools web application by developing new features, including secure password reset functionality.
- Deployed and tested applications in Tomcat and WebLogic environments using Jenkins and SonarQube.
- Utilized Vagrant and Docker to streamline local development and environment consistency across teams.
- Fixed critical UI and backend bugs, improving overall usability and system reliability.
- Technologies: Java, Spring Framework, HTML, CSS, MySQL, Jenkins, Docker**

SKILLS

- Languages:** C#, Java, JavaScript/TypeScript, SQL, C++
- Backend & Frameworks:** ASP.NET Core, .NET, Node.js, REST/ASP.Net Web APIs, Microservices, Spring Boot
- Cloud & Platforms:** AWS (EC2, S3, DynamoDB, Lambda, etc.), Microsoft Azure DevOps
- Frontend:** HTML5, CSS3, JavaScript (ES6+), Angular, React, Vue, Bootstrap
- Databases:** SQL Server, DynamoDB, MySQL
- Tools & DevOps:** Visual Studio, Git, Jenkins, Docker, Selenium
- Methodologies & Practices:** Agile / Scrum, Git workflows, CI/CD, Unit Testing

PROJECTS

CareCompass | .NET, EF Core, C#, MVC, SQL Server, PayPal API, Azure | Jan 2026

- Designed a B2B SaaS platform for mental health professionals to streamline practice patient workflows.
- Developed a modular ASP.NET Core backend using microservices-inspired architecture, implementing Identity, RBAC, email confirmation, and PayPal-based subscription management.
- <https://github.com/jzhang522/systems-analysis-design-group-project>

Multiplayer Game with AWS | AWS, Node.js, JavaScript/Canvas, WebSocket | Feb 2026

- Architected a server-authoritative real-time multiplayer game using AWS EC2, WebSocket and implemented server-side state validation to ensure consistency and prevent client-side manipulation.
- Designed a scalable microservices-style event-handling architecture using AWS API Gateway, Lambda and DynamoDB.

Receipt Recognition Application | Python, HTML, CSS, JavaScript | Mar 2020

- Built a web and Android app that extracts and categorizes expense data from receipt images using OCR.
- Implemented expense tracking and reporting features for custom date ranges.
- <https://github.com/jm3zhang/ReceiptIt>