

Claire Shen

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EDUCATION

University of Waterloo, Bachelor of Computer Science	09.2021 – 04.2027
Wilfrid Laurier University, Bachelor of Business Administration, Finance Concentration	09.2021 – 04.2027

SKILLS

Programming Languages

Java, Python, C, C++, R, JavaScript, TypeScript, Go, Rust

Tools, Frameworks, and Libraries

React, Angular, Spring Boot, Maven, Postman, HTML, CSS, Thymeleaf, Mockito, Node, MySQL, Figma, Github, VSCode, JQuery, Storybook, Bootstrap, SonarQube, Bitbucket, Veracode, JaCoCo, Docker, Kubernetes, LeanIX, Tomcat, TortoiseGit, Lombok, MySQL Workbench, IntelliJ, Eclipse, AWS, gRPC

EXPERIENCE

Software Development Engineer Intern , Amazon Web Services	05.2025 – present
<ul style="list-style-type: none">Developed control plane components for AWS RDS, enabling 12 new features to ship 6 to 9 months ahead of schedule by improving deployment speed and reliability.Engineered a thread-safe transient storage system to track job states, enabling reliable concurrency of Rhai scripts at 100 TPS in a high-throughput orchestrator.Designed and implemented a persistent database system to maintain data integrity across server crashes and EC2 instance restarts, reducing recovery time by 30%.	Vancouver, Canada
Solutions Architect Intern , Fidelity Investments	01.2025 – 04.2025
<ul style="list-style-type: none">Built a Java-based fund launch platform that streamlined the launch of 300+ mutual funds for portfolio managers and their 80+ team members, replacing Excel workflows.Worked on a backend migration to Spring Boot, refactoring the DAO, service, and controller layers for cleaner, more maintainable architecture.Containerized the application with Docker, creating an image deployable on Tomcat for consistent and simplified deployment.	Toronto, Canada
Backend Software Engineer Intern , Toronto Dominion Bank (TD)	01.2024 – 05.2024
<ul style="list-style-type: none">Initiated a developer-facing Python application that automated the gathering of code quality metrics from SonarQube for 80+ APIs.Achieved 90%+ code coverage on JaCoCo report with JUnit4 test cases.Saved \$3,500/month by identifying and decommissioning unused dev/test environments and aligning test environments with the latest production deployment.Built a Postman collection to test data transfer to underwriters, ensuring the HTTP endpoints for the Spring Boot mortgage renewal REST API were accurate.	Toronto, Canada
Frontend Software Engineer Intern , Toronto Dominion Bank (TD)	01.2023 – 04.2023
<ul style="list-style-type: none">Implemented pop-up features using Angular for the Easy Apply credit card web application, used by 1000+ applicants daily.Created an age verification checkpoint based on province to streamline the credit card eligibility process, increasing retention by 15%.Developed a collection of reusable components such as buttons and titles with Storybook to enhance the application's modularity and reusability.	Toronto, Canada

PROJECTS

Pizza Macro Calculator

- JavaScript, HTML/CSS, Bootstrap 
- A website that eliminates the manual task of searching a PDF to calculate nutritional information for pizzas.
 - Used by **50+** Waterloo students monthly to reduce the time spent calculating from **10 minutes to 1 minute**

Strength Club Website

- React, Tailwind CSS, TypeScript, Yarn 
- A React web application designed to highlight the achievements and initiatives of the Waterloo Strength Club

Cat Finder

- JavaScript, TensorFlow, HTML/CSS, Bootstrap 
- A machine learning application that identifies cat breeds from images and features a gallery of cat memes