

Claire Shen

✉ claireshendev@gmail.com  claire-shen-dev  claireshen.co  claire-shen ☎ 416-475-7817

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
Vancouver, Canada

- 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%**.

Solutions Architect Intern, Fidelity Investments 01.2025 – 04.2025
Toronto, Canada

- 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.

Backend Software Engineer Intern, Toronto Dominion Bank (TD) 01.2024 – 05.2024
Toronto, Canada

- 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.


Frontend Software Engineer Intern, Toronto Dominion Bank (TD) 01.2023 – 04.2023
Toronto, Canada

- 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.

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+** UWaterloo 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 UWaterloo 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