

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

Tools, Frameworks, and Libraries

Kubernetes, Docker, AWS (EC2, S3, IAM, CloudWatch, EMR, Glue, RDS, DynamoDB, Athena), Spring Boot, Node.js, React, Angular, PySpark, MySQL, REST APIs, Terraform, CI/CD, SonarQube, Veracode, JaCoCo, Postman, Mockito, GitHub, Bitbucket, Tomcat, Flask, Redis

EXPERIENCE

Software Development Engineer Intern, Amazon Web Services	10.2025 – Present
<ul style="list-style-type: none">Centralized 200TB/day DynamoDB request-router log analysis using EMR + Athena, cutting ad-hoc incident query time by 1–2 hours per event and reducing on-call load.Shipped a forecasting dashboard projecting host ingestion demand, accelerating CAPEX planning for 20+ internal DynamoDB teams.Built REST APIs surfacing live CloudWatch metrics into a consolidated dashboard used by 50+ TPMs for weekly and quarterly reviews.	Seattle, USA
Software Development Engineer Intern, Amazon Web Services	05.2025 – 08.2025
<ul style="list-style-type: none">Accelerated delivery of 12 RDS control-plane features by 6–9 months by reducing deployment coupling and improving rollback safety across control-plane services.Engineered a thread-safe transient state store for job tracking, enabling reliable concurrent execution of Rhai scripts at 100 TPS in a high-throughput orchestrator.Designed and implemented a durable persistence layer to preserve 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.	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%.	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