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	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, Seattle, USA
- 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.

Software Development Engineer Intern, Amazon Web Services — 05.2025 – 08.2025, Vancouver, Canada
- 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%**

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.

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%.**