Selina Li

✉ q339li@uwaterloo.ca | ⌨ github.com/Selinaqianli | 🔗 linkedin.com/in/qian-selina-li/ | 🌐 selinaqianli.github.io/

🔧 Skills

- **Languages**: Java, Kotlin, C#, C, C++, Python, GraphQL, SQL, JavaScript/TypeScript
- **Technologies**: Spring Boot, Ktor, ASP.NET, Angular, React, Apache Kafka, Apache Beam, Kinesis, Elasticsearch, Redis, MySQL, SQL Server, GCP, AWS Lambda, DataDog, RunDeck, Docker

🖥 Work Experiences

Backend Software Developer Co-op | Wealthsimple | Jan - Apr 2023 |*Ktor, Apache Kafka, Kinesis*

- Maintained microservices to implement real-time accounting flows for over 2 million clients, ensuring accurate and up-to-date information about their financial holdings for conducting actions
- Collaborated with cross-functional teams that owned downstream services, actively gathering their feedback and facilitating productive discussions to optimize and improve its performance

Backend Software Developer Co-op | Loblaw Digital | Jan - Apr 2022 |*SpringBoot, Elasticsearch, GCP*

- Optimized an Elasticsearch-based e-commerce search microservice by implementing features like fuzzy search and auto-complete, resulting in faster and more accurate product search
- Developed data processing pipelines using Google Cloud Dataflow and Apache Beam to perform batch and stream processing on Elasticsearch data, integrating with Pub/Sub for further analysis

Fullstack Software Developer Co-op | University of Waterloo | May – Aug 2021 | *ASP.NET, AngularJS*

- Built a dynamic and intuitive web page using AngularJS, ASP.NET, and SQL Server to archive and retrieve historical data with pagination, filtering, and sorting functionalities
- Refactored existing endpoints to ensure their reusability, extracting common functionalities to minimize redundancy, enhance maintainability, and optimize system performance

Fullstack Software Developer Co-op | University of Waterloo | Sep – Dec 2020 | *ASP.NET, AngularJS*

- Designed and developed a reliable email service with monitoring and error handling capabilities to guarantee prompt and dependable delivery to the intended recipients
- Engineered optimized stored procedures to significantly enhance database performance by reducing query data volume, accelerating query execution time, and refining query execution plans

Fullstack Software Developer Co-op | Dealer-FX | Jan – Apr 2020 | *ASP.NET, Angular, AWS Lambda*

- Delivered new features in the web application using ASP.NET and Angular, resulting in a 20% increase in user engagement and a 15% increase in overall site traffic
- Implemented AWS Lambda handlers to process AWS SQS messages, ensuring secure processing by checking authentication before directing requests to VPC-specific Lambdas

Backend Software Developer Intern | XYebank | Jun - Aug 2019 | *SprintBoot, Redis, Apache JMeter*

- Designed and developed RESTful APIs using SpringBoot in Java, while incorporating Redis for efficient caching of query results, resulting in a 60% reduction in data access latency
- Conducted load testing of APIs using Apache JMeter, optimizing the application's scalability and handling of high traffic volumes, resulting in a 75% increase in response time

🏛 Education

University of Waterloo   Sep 2019 – Apr 2024

Bachelor's of Applied Science, Computer Engineering   Waterloo, ON, Canada