

SHAYA SELINCOURT

Vancouver BC, Canada

+1 778-392-5420 | sselincourt@gmail.com | [linkedin.com/shaya-selincourt](https://www.linkedin.com/shaya-selincourt) | sselin.co/ | github.com/sselin-co

EMPLOYMENT

Software Development Engineer I & II

May 2022 – Present

Amazon - Supply Chain Optimization Technologies

Vancouver BC, Canada

- Engineered a resilient Lambda/S3-based system that resolved reliability issues for 8 critical services managing 36M+ daily orders. Implemented asynchronous data generation and storage for a Kotlin library.
- Led migration of 12 legacy service APIs to a Kotlin-based system, backfilling 44B+ entities. Authored 4 detailed design documents and coordinated migration for 30+ client services, leveraging Kotlin coroutines and AWS services.
- Developed core components of a fulfillment service library vending granular fulfillment capabilities, reducing API latency by 60%, and integrating observability tooling with CloudWatch.
- Enabled 4.5K+ supply chain experts to troubleshoot inventory movements with a web portal and generic translation layer, allowing onboarding of new APIs within 1 day.
- Reduced bulk update latency by 96% through rearchitecting sequential code into batch processing logic, using Kotlin concurrency primitives to achieve significant performance improvements.
- Eliminated reliance on an external China-specific fleet in a financial accounting service, reducing annual infrastructure costs by \$720K and improving cross-realm data accessibility.
- Achieved 100% latitude/longitude data coverage by developing a daily backfill script and collaborating with warehouse stakeholders to address parsing issues. Utilized AWS Location Service and Kotlin batch processing.
- Reduced API latency by 25% for consumer systems by deleting 22K unused warehouses through a safe deletion script with rollback safeguards that monitored real-time KPIs.

Junior Web Developer

May 2021 – May 2022

Osler, Hoskin, and Harcourt LLP | osler.com

Toronto ON, Canada (remote)

- Reduced recruiter processing time for 267 intern applications by 50+ hours by developing a custom admin site that automated a manual Excel-based workflow.
- Prevented deprecation of an automated course scheduler by reducing API latency by 90% through conversion of synchronous to asynchronous code.
- Built a customized registration website for Osler's Holiday Dinner program, streamlining food coordination for 720+ employees.

PROJECTS

Epidemic Simulator Android App | Java, Processing, Kotlin | [GitHub repository](#)

- Developed an Android app to visualize epidemic spread, incorporating real-time simulation of disease transmission.
- Improved frame rate by 500% by reducing collision detection complexity from $O(n^2)$ to $O(n)$ with Quadrees.
- Minimized crashes under high agent loads via unit testing and app lifecycle adjustments.

GitHub Languages Web App | React, JavaScript, chart.js | [GitHub repository](#)

- Created an app that accepts a GitHub username and visualizes user coding languages using the GitHub API and chart.js.
- Implemented OAuth authentication and data flow management between input forms, API calls, and chart rendering.

VOLUNTEERING

President

Feb. 2020 – Feb. 2021

UBC Computer Science Course Union

Kelowna, BC, Canada

- Led a team of six to organize BC Hacks, attracting 148 participants and raising \$4,500 in sponsorship funding.
- Organized BC Hacks Lite, a 12-hour hackathon for beginners with 46 participants and \$800 in sponsorship funding.
- Increased BC Hacks website traffic by 40% by revamping visual design with animated backdrops.

TECHNICAL SKILLS

Languages: Kotlin, Java, TypeScript, JavaScript, HTML, CSS

Frameworks: React, Angular, Node.js, Spring Boot

Cloud/Infra: AWS (Lambda, DynamoDB, EC2, S3, CDK), Docker, Gradle

Testing/Monitoring: JUnit, Jest, Mockito, Log4j, CloudWatch

Developer Tools: Git, IntelliJ IDEA, VS Code

EDUCATION

University of British Columbia

Sept. 2018 – May 2022

B.A. in Computer Science

Kelowna BC, Canada