

EXPERIENCE

Shopify

Sept 2024 – Present

Software Engineer (Platform Infrastructure) | May 2025 – Present

Remote – Montreal, QC

- Built the IOS tooling behind our end-to-end testing framework, using the same socket and WIR protocol as safari devtools to inject e2e test suites into the WebView.
- Contributed to developing a multi-threaded architecture for Shopify extensions, increasing success rate from 94% to 98.5%
- Extended [Shopify Dev MCP](#) with POS Extensions support, allowing partners to generate working extensions end-to-end and minimizing developer setup time.
- Improved encoding latency by 10% P50 and 96% P99 in extensions architecture, by rewriting the bridge encoder to run on the native thread instead of on the JavaScript thread.
- Co-led the migration of Shopify POS from React Native 0.79 to 0.83, contributing fixes to open-source dependencies, upgrading the dependency tree, and coordinating regression testing across multiple teams.
- TypeScript, Java, Kotlin, NodeJs, Ruby/Rails, React Native, SQLite, MySQL, Grafana, Prometheus, GraphQL, Google cloud, Redux

Software Engineer (Omnichannel Selling) | Sept 2024 – May 2025

- Shipped Split cart checkout for POS, allowing merchants to process in-store and shipping items in a single transaction, cutting checkout steps in half and removing a top merchant pain point with \$8.228 million GMV and 16,881 Split Cart orders.
- Improved latency by 640ms (p99) of Draft checkouts, loading only minimally necessary data to perform the backend processing.

Intact Financial Corporation

May 2024 - Sept 2024

Java Backend Software Engineer Intern

Montreal, QC

- Built out and maintained distributed Kafka data pipelines in Java, comprised of 16 batches, 23 kafka consumers/producers, 16 mongoDB non-relational databases and 19 REST APIs – all for processing crucial insurance broker data.
- Reduced by 73% the number of errors logged in our pipelines - from 500 to 135 a sprint - through troubleshooting and fixing issues.
- Saved 5+ hours every month of developer time by implementing a dashboard to facilitate monitoring health metrics.
- Configured and developed a new Kafka pipeline for deletion of insurance contracts, in compliance with Data Protection laws.
- Java, Spring Boot, MongoDB, Maven, Apache Kafka, Docker, SoapUI, Postman, OpenShift, Elasticsearch, Kibana, Dynatrace, JUnit, Mockito

Desjardins Group

May 2023 - Sept 2023

Java Backend Software Engineer Intern

Montreal, QC

- Led the design and development of a 98% accurate predictive algorithm to forecast recurring Credit/Debit transactions based on the clients' 12-month history, using a Statistics model to help better budget their money, in an agile environment.
- Collaborated with data science engineers to prototype the algorithm in Python and built out as a Java/Spring API microservice to extend existing code architectures, respecting SOLID design patterns, unit testing with Mockito and Cypress for automated testing.
- Java, Spring Boot, Python, Gradle, WireMock, JUnit, Mockito, Azure, SonarQube

Haivision

Sep 2022 - Dec 2022

Software Engineer Intern

Montreal, QC

- Built reusable TypeScript react component library used across internal products.

PROJECTS

Fallboot – High-Concurrency Distributed System in Java ([Github](#))

- Engineered a real-time distributed system handling 10,000 concurrent users at 10,388+ requests per second across 12 horizontally scaled, load-balanced ECS Fargate instances, with each user fetching a 1000x1000 grid, connecting via WebSocket, and sending/receiving real-time pixel updates - achieving 99.2% success rate under burst load.
- Deployed a multi-AZ AWS cluster using Terraform, composed of ECS Fargate, NLB, RDS PostgreSQL, ElastiCache, Redis, MSK Kafka, ECR, CloudWatch, Cloud Map service discovery, and a dedicated EC2 load test instance
- Designed a three-tier caching architecture (Caffeine, Redis, PostgreSQL) with a 100ms batching pipeline, iteratively scaling throughput by 21x across 6 load-tested revisions, from 502 to 10,388 req/sec.
- Containerized all services with multi-stage Docker builds, automated image deployment via ECR push scripts, and ran Gatling load tests from within the VPC for accurate end-to-end performance measurement.
- Java, Spring Boot, WebSocket, Virtual Threads, Apache Kafka, Redis, PostgreSQL, Caffeine, Docker, AWS, Gatling

ShopiKafka – Java Kafka Data Pipeline ([Github](#))

FinHealth – Stock Prediction & Research App (Hackathon prize winner) ([Github & Demo](#) | [Devpost](#))

PetYogi – AI Meditation Mobile App (prev Google Play & App Store) ([Website](#) | [Github & Demo](#))

- Speech Synthesis ML model, deployed to AWS ECR/ECS, using Docker, and inference through a serverless lambda endpoint.

EDUCATION

Bachelor of Engineering – Software Engineering w/ distinction | Concordia University - Montreal, QC

Relevant courses: Java Object Oriented Programming, data structures, Algorithms, Operating Systems, Databases, Web Development, Machine Learning

SKILLS

Programming Languages Java | JavaScript/TypeScript | Python | Ruby | Node JS | SQL | GraphQL
Cloud/Distributed Systems AWS ECR/S3/EC2/Lambda/ECS | Kafka | PostgreSQL | Redis | Microsoft Azure | Docker | MongoDB
Frameworks Spring Boot | React Js/Native | Ruby on rails | Express | JUnit | Mockito