

Jonathan Ishak

519-694-8754 | jonathan.r.ishak@gmail.com | [linkedin.com/in/jonathan-ishak](https://www.linkedin.com/in/jonathan-ishak)

EDUCATION

University of Western Ontario

B.E.Sc. Software Engineering

- GPA: 3.7/4.0, Dean's Honour List

Sept. 2023 – Expected Apr. 2028

London, ON

EXPERIENCE

Software Engineer Intern

Scotiabank – InvestIQ

May 2026 – Present

Toronto, ON

- Led development of persistent chat and session history across every AI module of InvestIQ, a Vertex AI investment research platform that cuts analysts' repetitive research tasks by up to 90%, giving 100+ portfolio managers Cloud SQL-backed history in place of stateless sessions (Next.js, TypeScript).
- Led the Fund Holdings module end to end, surfacing hundreds of fund holdings from a daily data ingest alongside Vertex AI-generated fund insights, cached per day to avoid regenerating them on every request.
- Replaced spreadsheet-based triage of hundreds of daily custodian reconciliation breaks with a structured queue module that shows full break details and tracks each break's stage through resolution.
- Sped up the platform by up to 40% by optimizing Cloud SQL queries, adding client- and server-side caching, and refactoring data fetching across the Next.js codebase.
- Resolved production bugs under deadline ahead of a live platform demo to Scotiabank's CEO.

Cloud Engineer Intern

Scotiabank

Jan. 2026 – May 2026

Toronto, ON

- Built zero-downtime rolling restarts for 645+ GKE deployments, including 27% of the bank's Tier 1 mission-critical apps, replacing unsafe pod-by-pod restarts and tickets with a Spring Boot + Kubernetes Java Client service.
- Maintained a full-stack self-service platform that lets tenant teams start, stop, and restart workloads in their namespaces and view cluster analytics without direct kubectl access.
- Deployed platform services via ArgoCD GitOps with customized Helm charts, and triaged production incidents and bugs across the platform.

Software Engineer Intern

AGM Construction

May 2024 – Aug. 2024

London, ON

- Designed and launched the company's responsive landing page with leadership, building reusable UI components in React and SCSS.
- Built an Express.js REST API to capture and store customer contact inquiries submitted through the site.

PROJECTS

Formula Racing Telemetry Platform | *React, FastAPI, Docker, AWS, InfluxDB*

Aug. 2025 – Present

- Led a team of 5 developers building a React + FastAPI live telemetry dashboard for Western Formula Racing, streaming car data with sub-200ms latency during race tests.
- Deployed a Dockerized data acquisition stack on AWS serving 50+ team engineers with zero data-loss incidents.

RightCode | *SwiftUI, FastAPI, Docker, Celery, Redis, AWS SQS*

Aug. 2025

- Built an iOS app that executes handwritten code by integrating Hugging Face's nanonets-OCR-s model into a SwiftUI + FastAPI pipeline.
- Ran user code safely in Docker-isolated Python, JavaScript, and Java sandboxes.
- Raised execution throughput 4x over a single synchronous worker by distributing jobs across async Celery workers on Redis and AWS SQS.

TECHNICAL SKILLS

Languages: Java, TypeScript, Python, JavaScript, SQL, Swift, C/C++

Frameworks: Spring Boot, Next.js, React, Node.js, Express, FastAPI, Django, Tailwind CSS

Cloud & DevOps: GCP (GKE, Cloud SQL, Vertex AI), AWS, Kubernetes, Docker, Helm, ArgoCD, Grafana, Splunk

Databases: PostgreSQL, Redis, InfluxDB, MongoDB