

Mohsen Bakhit

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Experience

Software Engineer I

Aug 2026 – Present

Mastercard

Vancouver, BC

- Extended an automated rule-compilation checker built with Spring and Jenkins to validate BRMS rule changes, removing the need for manual review.
- Built a deep service health-check endpoint using JVM MXBean and memory APIs, and configured Splunk dashboards and alerts to support monitoring and troubleshooting.
- Decoupled healthchecks within Chef Habitat to improve error logging and observability, and identified a bug that caused health checks to be skipped automatically.
- Contributed to migrating internal rule clients from IBM ODM 8.9 to 8.11 ahead of a licensing deadline, helping the team avoid additional licensing costs.

Software Engineer Intern

May 2025 – Aug 2025

Mastercard

Vancouver, BC

- Refactored a Spring Boot service to perform hashing and data persistence asynchronously, reducing response latency by 55% (80 ms to 36 ms) by decoupling blocking operations from the request flow.
- Migrated a legacy Java HTTP service to gRPC, decoupling service interfaces.
- Integrated OpenTelemetry instrumentation with Prometheus and Grafana to support metrics collection, distributed tracing, and bottleneck investigation.
- Collaborated with cross-functional teams to onboard 10+ services onto an internal health-check tool, expanding service health monitoring.

Application Developer Intern

Sep 2024 – Apr 2025

CIBC – Capital Markets Technology

Toronto, ON

- Migrated components of a legacy C/COBOL monolith into Go gRPC microservices, improving modularity and maintainability.
- Used goroutines to parallelize transaction data extraction over the network, reducing processing latency by 15% (117 ms to 99 ms).
- Containerized and deployed Go services to OpenShift/Kubernetes using Docker and internal CI/CD pipelines.

Research Assistant

May 2024 – Aug 2024

UBC Department of Chemistry

Vancouver, BC

- Automated molecular simulation workflows by generating batch scripts for the SLURM job scheduler.
- Automated parsing of QCEngine/Psi4 results and data transfers to Amazon S3, reducing end-to-end runtime by 40%.
- Configured GitHub Actions to deploy backend updates to a server on changes to the production branch.

Education

University of British Columbia

2021 – 2026

Bachelor of Science, Computer Science

Vancouver, BC

Technical Skills

Languages: Java, Go, Python, TypeScript, C++, SQL

Frameworks: Spring Boot, Gin, NumPy, Pandas

Infrastructure & Cloud: Docker, Kubernetes/OpenShift, AWS (EC2, S3, Bedrock), Jenkins, GitHub Actions, Chef Habitat

Observability & APIs: gRPC, OpenTelemetry, Prometheus, Grafana, Zipkin, Splunk, k6