John Yuen Chung Man

SOFTWARE ENGINEERING CO-OP / INTERNSHIP | AVAILABLE MAY–DEC 2027

Seattle, WA | Open to Relocate | F-1 (CPT for co-op, OPT after graduation)
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Summary

Backend engineer with 5 years building Java and Spring Boot services, APIs, and distributed systems at OKX, Standard Chartered, and Blockchain Solutions. Profiles before optimizing: cut API latency **90%**, database load **85%**, and a core workflow from **13 minutes to 31 seconds**. Builds LLM agent tooling used by **12 engineers**. Now an MSCS student at Northeastern University in Seattle, seeking a software engineering co-op or internship.

Education

Northeastern University — Seattle, WA
M.S. in Computer Science — Sep 2026–2028 (expected)

The Chinese University of Hong Kong — Hong Kong
B.Eng. in Information Engineering — Sep 2019–Aug 2022

Professional Experience

OKX Software Engineer — Hong Kong | Nov 2024–May 2026

- **Market-making developer** on OKX's crypto market-making team: built the Java gateway-to-strategy-to-order path for **3 trading desks** and owned 24/7 incident diagnosis.
- Cut order-execution latency **40%** to **1 µs p50 / 8 µs p99** by profiling the JVM hot path and making it lock-free.
- Halved critical incidents (**2–4 to 1–2 per month**) by building a self-initiated async log monitor (**FastAPI**, Flask) that triggers **cloud-agent** investigations; adopted by **3 teams**.
- Built the **multi-agent LLM coding harness** that runs all development work for **12 engineers** on OKX's AI platform, keeping long-running agent tasks on spec via phase gates, isolated worktrees, and enforced review.

Standard Chartered Bank Analyst, Development — Hong Kong | Jul 2023–Nov 2024

- **Sole backend developer** of a Java **Spring Boot** retail stock-trading system handling **10,000+ daily trades**.
- Cut API latency **90%** and holdings processing time **87%** by rewriting an `O(n^2)` cost-basis recalculation in `O(n)`.
- Cut database load by **85%** by fixing Spring **open-in-view connection-pool exhaustion** and adding caching.
- Led a from-scratch rebuild of the notification engine with **90%+ unit-test coverage**, by tracing business logic through the over-abstracted legacy code and redesigning it with the Strategy Pattern and dependency injection.
- Automated daily settlement with batch-run **Oracle stored procedures** running complex operations server-side.

Blockchain Solutions Limited Software Engineer — Hong Kong | Jun 2022–May 2023

- **Backend developer** for client projects, building Java and **Kotlin Spring Boot** microservices on **RabbitMQ** pub/sub; diagnosed stuck and backpressured queues.
- Cut a core workflow from **13 min to 31 s** (96%) by moving a JPA hot path to **QueryDSL** and **JDBC** batch inserts.
- Ran the backend on **AWS** EC2, storing images in S3 and tracking service metrics in CloudWatch.

Manpower Service (HK) Limited Contract Junior Programmer — Hong Kong | Sep 2018–Aug 2019

- **J2EE application developer**: diagnosed and fixed Oracle PL/SQL stored procedures behind data access.

Technical Expertise

Programming	**Java**, Kotlin, Python, SQL, PL/SQL
Backend	**Spring Boot**, **REST APIs**, Spring Data JPA (Hibernate), QueryDSL, JDBC, FastAPI
Data	**Oracle**, MySQL, **Redis**, **Kafka**, **RabbitMQ**, Ehcache, stored procedures
Cloud	**AWS** (EC2, S3, CloudWatch), **Docker**, **Kubernetes**, Helm, Nginx, Azure DevOps, Ansible
Quality	Unit testing, JMH, profiling, Prometheus, Grafana, OpenTelemetry
Languages	Fluent in **Cantonese**, **English**, and **Mandarin**