

Heming Qin

Victoria, BC, Canada | 7786765278 | hemingqinn@gmail.com

TECHNICAL SKILLS

Languages: Java, Kotlin, Python, JavaScript, SQL

Framework: React, Flask, FastAPI, REST APIs, WebSocket, PostgreSQL, Redis

Tools & Platforms: Git, Jira, Confluence, Gradle, JUnit, Postman, AWS EC2, Nginx, Docker

EXPERIENCE

University of Victoria | Research Assistant

July 2024 – Jan 2026

- Developed an engineering simulation workflow that centralized simulation data, technical documentation, and research records, reducing manual data management effort by approximately **40%**.
- Built automated data ingestion, semantic retrieval, and AI-assisted search workflows, enabling researchers to efficiently access historical simulation results and technical knowledge.
- Maintained containerized deployment and data processing pipelines using Docker, AWS, GitHub Actions, and YAML, establishing reproducible engineering workflows.

OPPO Mobile Telecommunications Corp | Software Developer

Jan 2021 – Aug 2023

- Delivered Android framework features for commercial smartphone products, including automated carrier validation and device security workflows.
- Developed and maintained system services supporting asynchronous event processing, improving software reliability across production devices.
- Investigated integration issues through structured logging and root-cause analysis, accelerating debugging and defect resolution.
- Coordinated feature validation with QA engineers and product managers through Agile development cycles using Jira.
- Supported production releases through Gradle build management, integration testing, and cross-functional defect resolution.

Oneplus Software Technology Ltd | Software Developer

July 2020 – Jan 2021

- Developed Real-Time Text (RTT) accessibility features for Android contact applications, improving communication support for visually impaired users.
- Implemented JUnit unit and regression tests to validate software quality before feature integration and production releases.
- Improved application stability by resolving lifecycle, permission, and state-transition issues across Android devices.

PROJECT

OBVS (Oak Bay Volunteer Services) | Volunteer Software Developer

April 2025 – May 2025

- Developed a cloud-based operational platform supporting volunteer coordination, donation management, and internal workflow automation using React, Flask, and PostgreSQL.
- Enabled real-time synchronization for 80+ concurrent users by replacing polling with Redis Pub/Sub and WebSocket infrastructure.
- Improved backend response time by approximately 30% through database indexing, query optimization, and stateless API architecture.

EDUCATION

UNIVERSITY OF VICTORIA

Master of Applied Science in Electrical and Computer Engineering

Sep 2023 – Jan 2026

SOUTHEAST UNIVERSITY

Master of Optical Engineering

Sep 2017 – June 2020