

Billy Chan

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Available for 8, 12 month Software Development Co-op or Internship starting from May 2025

Education

McMaster University 09/2024 - Present
MEng, Computing & Software
Hamilton, ON
Data Structure & Algo., (Micro)service-oriented archi., Software Design, Intro to Big Data, Machine Learning, etc.
City University of Hong Kong
BEng, Information Engineering, 2:1 (Software Design and Development)

Skills

Programming Languages: Java, Python, Swift, JavaScript
Web Development: HTML/CSS, React.js, Vue.js
Backend Development: Spring Boot, MongoDB, PostgreSQL, MySQL, REST, Message Queues (Kafka, RabbitMQ), Microservices, Hexagonal Architecture
Technology: Azure, Docker, Kubernetes, Git, Jira, Linux, Unit Testing, GraphQL, CI/CD

Experience

iOS Engineer, Wellfield Technologies – Toronto, ON 06/2022 – 05/2023

- Delivered a web3 wallet app Coinmama from scratch, used MVVM-C architecture and SwiftUI, driving 20,000+ app installations and \$2M in volume within 6 months
- Led integration of analytics service, with Firebase and AppsFlyer, to consolidate 14,000+ monthly active users
- Streamlined codebases of the network layer, using Swift Concurrency, to improve readability
- Conducted unit tests using the XCTest framework to maintain code robustness, achieving 70% code coverage
- Collaborated in an agile manner with cross-functional team sprints by participating in 100% of daily scrums

Software Engineer iOS, Lalamove(unicorn startup) – Hong Kong 07/2020 – 11/2021

- Built A/B tested user features bi-weekly, with Objective-C, VIPER and UIKit, to serve users across 15+ cities
- Coached the team to integrate the debugging tool Proxyman, to reduce 50% network debug time
- Removed redundant components from the codebase, with continuous investigation and inspection, to save the company 30% of spending on Geocoding API
- Monitored app performance and diagnosed issues, with Firebase Crashlytics, to maintain 99.9% crash-free rate
- Optimized the app launch process, with GCD and multi-threading, to reduce the app start time to 2 seconds

Selective Projects

BookStore System github.com/billycchan/bookstore-microservice

- Implemented a microservices-based bookstore application using Java Spring Boot, RabbitMQ, and PostgreSQL.
- Secured inter-service communication with OAuth2 and Keycloak, integrating API Gateway for unified access control
- Established development and deployment workflows with Docker and Github Action, enabling efficient containerized setup and consistent testing across environments.

BinTo: Waste Management Tool apps.apple.com/ca/app/binto-waste-manager-toronto/id6475327288

- Created a user-friendly search tool that guides users on the proper sorting of over 2,500 items for Toronto
- Introduced the Collection Schedule feature, enabling residents to stay informed about the pick up schedule
- Showcased clothing donation locations on a map, motivating residents to contribute their unused garments

Certifications

- **Gemini API by Google** - Python/Prompt Engineering/Large Language Models/Gemini API/Google AI Studio
- **J.P. Morgan Adv.Software Engineering** - Java/Spring Boot/Kafka/H2/REST
- **Others:** - Microsoft Azure Fundamentals, Professional Scrum Master I