

GORDON NG

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Skills

Languages: Swift, Python, Java (Proficient), JavaScript, Bash, SQL (Intermediate)

Technologies: SwiftUI, UIKit, Combine, Firebase, Bootstrap, Git, Docker, Confluence, Jenkin, Jira

Spoken: English, French (Fluent), Mandarin, Cantonese (Intermediate)

Experience

Software Engineering Intern

Sep 2024 – Dec 2024

BetterSleep

- Developed in **Swift** for **SwiftUI** and **UIKit** inside of a **MVC, MVVM** hybrid architecture audio application
- Leveraged **Combine** to build a sound interface, delivering **real-time** scheduling updates
- Improved app exploration by **35%** using **Mixpanel** statistics driven development
- Collaborated on the development of internal **Bash** scripts to automate developer onboarding

Software Engineering Intern

May 2023 - Aug 2023

TouchTunes

- Developed in **Swift** for **UIKit** inside of a **MVC** architecture driven music application
- Led **AB Test** development with **Jenkin** and **Firebase** for a feature netting a **25%** increase in engagement
- Optimized runtime performance by **20%** through addressing deprecated Swift components
- Resolved a critical payment service outage in production impacting **10,000+** users
- Enhanced **unit test** coverage by **30%** and contributing **Confluence** documentation for code maintainability

Projects

Valorant Store Checker

Jun 2022

- Created a **SwiftUI** game companion application in **Swift** with **350,000+** downloads and **50,000+** users
- Employed the **MVVM** design pattern and 4 **REST APIs** to enhance application scalability
- Improved access to third party game content by up to **500% faster** compared to the existing solution
- Optimized app loading times through **asynchronous** data fetching and **caching**
- Collaborated with developers through **GitHub** and beta testers through **TestFlight**

AI Game Agent

Dec 2023

- Achieved a **90th** percentile ranking in a round robin tournament versus other AI agents in **Python**
- Leveraged **alpha-beta pruning** with a transposition table and **iterative deepening search** strategies
- Employed a **genetic algorithm** with crossover and mutation techniques to optimize **heuristic** weights

GoodLuckTruck

Nov 2023

- Developed a full stack **Swift** and **SwiftUI** trucking application drawing from a **Python** backend
- Utilized geospatial **KD-Tree** for parsing **MQTT data streams** to push notifications based on truck location
- Leveraged **WebSockets** to push and filter notifications based on location data and preferences
- Optimized shipping routes using the Haversine formula to suggest loads based on route profitability

Education

Software Engineering BSC

Expected Graduation May 2026

McGill University

- Data Structures & Algorithms, Databases, Operating Systems, Artificial Intelligence
- Vice President of External Affairs of HKSAN, an East Asian culture club