GORDON **NG**

gordon.ng@mail.mcgill.ca | 514-995-2198 | github.com/SoloUnity | linkedin.com/in/gordonng03/

Experience

iOS Developer Intern   May 2023 - Aug 2023
TouchTunes

- Developed and debugged a music application with **12,000,000+** downloads using **Objective-C** and **Swift**
- Resolved a critical service outage impacting **10,000+** users, thereby safeguarding revenue
- Led **A/B Test** development in **Leanplum** for a revenue-boosting feature involving **30,000+** users
- Enhanced application performance by **20%** through compatibility resolution with the latest iOS version
- Authored unit tests in **XCTest** and documentation in **Confluence** for code reliability and maintainability

Projects

Mobile Gaming Application | 50,000+ Peak Active Users   Jun 2022 - Present

- Developed a **SwiftUI** and **Swift** utility gaming application with **350,000+** downloads
- Enabled access to third party game content over **5x faster** compared to the existing PC solution
- Utilised **Riot REST API**s with **JWT**s and **concurrency** for account and asset management
- Employed the **MVVM** design pattern to enhance the scalability of the project's architecture
- Collaborated with developers through **GitHub** and beta testers through **TestFlight**

AI Game Agent | Python   Dec 2023

- Developed an **AI** agent for a grid-based board game, enhancing strategic decision-making using advanced algorithms and genetic optimization techniques
  Implemented **alpha-beta pruning** with a transposition table and iterative deepening search strategies for efficient decision-making
- Employed a **genetic algorithm** with crossover and mutation techniques to optimize heuristic weights, enhancing the agent's strategic adaptability
- Achieved a **90**th percentile ranking in a round robin tournament versus other agents

CodeVault | ConUHacks Hackathon   Jan 2023

- Utilised **React** and **SwiftUI** on a team to develop a **cybersecurity** focused password generation and strength evaluator web app and local application for iOS, iPadOS and macOS

Education

Software Engineering BSC   Aug 2022 - May 2026
McGill University

- Relevant courses: Data Structures and Algorithms, Databases, Artificial Intelligence
- Vice President of External Affairs of HKSN, an East Asian culture club

Skills

Programming	Frameworks and Tools	Languages
Swift, Python, C, Objective-C, Java, Bash, JavaScript, OCaml, HTML and CSS	SwiftUI, UIKit, XCTest, React, JUnit, Firebase, Git, GitHub, Leanplum, Confluence, and Jira	English and French (Fluent), Cantonese, and Mandarin (Intermediate)