Mussa Charles Mayunga

Senior iOS Engineer | Advancing in AI/ML

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TECHNICAL SKILLS

- **Programming Languages:** Swift, Objective-C, Python, JavaScript
- **Networking:** REST, GraphQL, URLSession, Alamofire
- **Modularization:** Swift Package Manager, XCFrameworks, Cocoapods
- **Reactive Programming:** Combine, CombineCocoa, RxSwift, RxCocoa
- **Concurrency/Multithreading:** Swift Concurrency, GCD, Operation Queues

- **UI:** SwiftUI, UIKit, Texture, IGListKit, React
- **CI/CD:** Fastlane, GitHub Actions, Xcode Cloud
- **Data Storage:** Swift Data,Realm, CoreData, MongoDB, MySQL
- **Testing:** XCTest, RxTest, RxBlocking, Quick, Nimble
- **Version Control:** Git, GitHub, GitLab
- **AI/ML:** CoreML, RAG, LangChain, TensorFlow, PyTorch

WORK EXPERIENCE

Lead iOS Engineer — Seoul, South Korea
Lycle — Jan 2021 –Feb 2024

- Modularized using SPM and Clean architecture, resulting in 5x faster incremental builds.
- Adopted Swift Concurrency and SwiftUI, enhancing performance and workflow efficiency.
- Integrated local payment providers, expanding payment options, which resulted in a revenue growth of more than 300%.
- Implemented CI/CD with Fastlane, saving approximately 10 minutes per deployment.
- Transitioned from Objective-C to Swift with unit testing, ensuring no regressions and enhancing safety and productivity.

iOS Engineer — Seoul, South Korea
OJWorld Co.,Ltd — Oct 2018 –Dec 2020

- Developed voice and video call feature from scratch with WebRTC, enhancing user engagement.
- Implemented real-time chat via webSockets with offline support, improving connectivity.
- Added unit tests to achieve over 70% coverage, simplifying bug detection for our distributed team pre-deployment.
- Implemented adaptive live broadcast to ensure session continuity even in poor network conditions.
- Led UI migration from storyboards to 100% programmatic UI, eliminating git merge conflicts from old UIs, freeing developers for critical tasks.

EDUCATION

Yonsei University — Seoul, South Korea
Bachelor of Science in Electrical and Electronics Engineering — 2015–2019

- Key Courses: Data Structures and Algorithms, Application Programming, Computer Networks, Engineering Capstone Design.

Kyung Hee University — Seoul, South Korea
Certificate: Korean Language and Culture — 2014–2015

- Key Courses: Advanced Korean Language Speaking,Listening and Writing, Korean Culture.

LICENSES AND CERTIFICATIONS

Stanford University,DeepLearing.AI,Coursera   Online
Certificate in Machine Learning   March 2024

- Covering Supervised Learning, Regression, Classification, Advanced Algorithms, Unsupervised Learning, Recommenders, and Reinforcement Learning.
  * See full list on linkedin.com/in/mussacharles/details/certifications/

PROJECTS

- **TossPayments/payment-sdk-ios** - Open Source Contribution   Apr-May 2023

  - **About:** Toss's official iOS Payment SDK. Independently contributed two critical bug fixes, enhancing payment integration and deployment speed.
  - **Role:** Open Source Contributor.
  - **Technologies:** Swift,SwiftUI,Tuist,Swift Package Manager.
  - [View Project on GitHub](#)

- **SwifterSwift** - Open Source Contribution   Oct 2022 - Present

  - **About:** A library offerring 500+ Swift extensions, boosting developer productivity with over 13,600 GitHub stars.
  - **Role:** Open Source Contributor and Member of the Organization.
  - **Technologies:** Swift, SwiftUI, UIKit, Fastlane.
  - [View Project on GitHub](#)

- **Texture/AsyncDisplayKit** - Open Source Contribution   Oct 2022

  - **About:** A library for asynchronous iOS UIs, developed by Facebook and now open-sourced by Pinterest, has over 7,900 GitHub stars.
  - **Role:** Open Source Contributor.
  - **Technologies:** Objective-C, Objective-C++, Swift.
  - [View Project on GitHub](#)

- **Repricee** - Native iOS App side Project   Feb 2019

  - **About:** A location-based social app for product sharing, which I independently created, has achieved over 1,100 organic downloads due to its focus on a seamless user experience.
  - **Role:** Creator and Sole Developer.
  - **Technologies:** Swift, RxSwift, Texture, IGListKit, SnapKit, Fastlane, XCTest.
  - [View Project on AppStore](#)

- **Portfolio Website** - Side Project   Nov 2018

  - **About:** A personal website that I developed from scratch to showcase my achievements.
  - **Role:** Creator and Sole Developer.
  - **Technologies:** JavaScript, HTML, CSS, JQuery.
  - [See Project on My Website](#)

LANGUAGES

- **English:** Fluent   • **Korean:** Advanced   • **Swahili:** Native