Mussa Charles Mayunga

Machine Learning Engineer | Senior iOS Engineer

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SKILLS

- **AI/ML:** Python, PyTorch, TensorFlow, AutoGluon, Scikit-learn, MLFlow, Docker
- **Data:** PostgreSQL, Supabase, MongoDB, MinIO, Redis, SQLite, Pandas, NumPy
- **Other:** Javascript, Swift, Objective-C, iOS Frameworks

WORK EXPERIENCE

AI/ML Engineer @AICESS   Pangyo, South Korea (Jun 2024 – Present)

- Designed and implemented advanced ML models for time series forecasting and computer vision to drive data-driven insights and solutions.
- Developed and automated MLOps pipelines, ensuring efficient model deployment, maintenance, and reproducibility.
- Orchestrated seamless development environments with Docker to streamline workflows and reduce setup friction.
- Leveraged MLFlow to track experiments, manage model versions, and facilitate reproducible research.
- Set up model tracking servers, monitored registries, and established devcontainers for faster onboarding and collaboration.

Lead iOS Engineer @Lycle   Seoul, South Korea (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 @OJWorld   Seoul, South Korea (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 (2015–2019)

Bachelor of Science in Electrical and Electronics Engineering

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

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

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

LICENSES AND CERTIFICATIONS

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

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

PROJECTS

Open Source Contributions   2022 - Present
GitHub Projects

- **SwifterSwift** (2022-Present): Active contributor and organization member for this
  popular library (14,400+ stars) offering 500+ Swift extensions to boost developer
  productivity. *Swift, SwiftUI, UIKit*
- **Texture/AsyncDisplayKit** (2022): Contributed to this
  Facebook/Pinterest-developed library (8,100+ stars) for asynchronous iOS UIs.
  Objective-C, Objective-C++, Swift
    * See full list on github.com/mussacharles

Personal Projects   2019
Independent Development

- **Repricee**: Location-based social app for product sharing with 1,100+ organic
  downloads. Independently designed and developed with focus on user experience. *Swift,
  RxSwift, Texture, IGListKit*
    * View on App Store