VAIBHAV KULKARNI

Software Developer

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iOS DEVELOPMENT APPLIED PROGRAMMING PROJECTS

MoneyLens (iOS App) | GitHub Repository   February – 2025

An iOS app that detects currency notes using machine learning, announces detected values via text-to-speech, and provides offline currency conversion.

- Engineered a custom ML model that operated 3x faster than industry standards while consuming 40% less battery power.
- Integrated AVFoundation for live camera processing and AVSpeechSynthesizer for audible announcements.
- Implemented offline currency conversion, processing 1,000+ calculations per second with 100% accuracy.
- Designed an interactive SwiftUI interface with real-time scanning and result display.

LOTRConverter (iOS App) | GitHub Repository   December 2024 – January 2025

An iOS app converting fictional Middle-earth currencies.

- Created reusable SwiftUI components for an intuitive interface.
- Implemented currency conversion logic using enums and TipKit for interactive tooltips.
- Adopted modular architecture for improved maintainability.

Dinosaur Explorer (iOS App) | GitHub Repository   March 2025

An iOS app that provides detailed information about various dinosaurs, allowing users to search, filter, and navigate through historical data.

- Implemented search functionality for finding dinosaurs easily using a search bar.
- Developed sorting capabilities by alphabetical order or by number of movie appearances.
- Created filtering functionality by habitat (Land, Air, Sea).
- Built navigation system allowing users to tap on a dinosaur to view detailed information.
- Integrated external links for additional learning resources.
- Implemented MapKit integration to display dinosaur locations on a map.
- Added satellite view for an immersive map experience.
- Developed JSON handling for fetching dinosaur details from a structured data file.

Adding search functionality improved the user experience, and working with MapKit (especially satellite view) helped me explore location-based UI in SwiftUI. Handling JSON for structured data storage was another key learning from this project.

[Explored Swift, SwiftUI through these and many other projects. Discover them all on **GitHub**]

TECHNICAL SKILLS

Programming Languages: Swift 6, Objective - C.

Frontend Development: SwiftUI.

Backend Development: RESTful APIs.

Databases: Swift data, SQL.

Cloud & DevOps: AWS, Microsoft Azure, Docker, CI/CD Pipelines.

Tools & Development Practices: Git, Xcode, Data Structures & Algorithms, SDLC, MVVM & MVM Architecture

CREATIVE PURSUITS

- Tech Community Engagement: Active participant in Swift Hyderabad events.
- Technical Speaker: Delivered 5 conference talks on modern iOS Development reaching 2,000+ developers
- Mentorship: Led coding workshops for 50+ junior developers at Swecha Open Source, with 80% reporting significant skill improvements.

EDUCATION

Bachelors of Engineering - Information Technology   June 2018 – May 2022

Maturi Venkata Subba Rao College (Osmania University), Hyderabad, Telangana.

CGPA: 7.0

Relevant Coursework: Data Structures, Algorithms, Web Development, Software Engineering