



# PHAM HOANG SANG

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Software Product Engineer with 4+ years of experience in Flutter. Specialized in building modular monorepos (Melos) and custom developer tooling to accelerate product delivery. Committed to high-performance UI, Clean Architecture, and automated engineering workflows.

## EXPERIENCE

### ENLAB SOFTWARE

Dec 2021 - Oct 2025

Role: Mobile Engineer | Team size: 3-7 | Cleeksy – DOP

- **Low-code & Dynamic UI Engine:** Developed a robust rendering system driven by backend JSON schemas.
- **Pragmatic Clean Architecture:** Spearheaded the adoption of Clean Architecture using GetIt for Dependency Injection. Improved development velocity by streamlining the Entity-Model relationship and maintaining a clear separation between business logic and the UI framework.
- **System Consolidation:** Led the initiative to refactor and merge legacy functional modules, significantly reducing codebase complexity and improving system maintainability.
- **Data Integration & Logic:** Expertly handled the parsing and complex business logic for diverse data schemas, including real-time data synchronization and third-party integrations (Quill Editor, Data Charts).
- **Performance & Quality Control:** Conducted regular profiling using Flutter DevTools (Performance & Memory tabs) to eliminate memory leaks and optimize controller lifecycles.
- **Product Consistency:** Acted as a technical gatekeeper to ensure Design System integrity, collaborating with UI/UX teams to balance visual complexity with technical feasibility and delivery timelines
- **Knowledge Management:** Established high standards for Technical Documentation and Doc Comments. Successfully eliminated knowledge silos, resulting in a more efficient onboarding process and reduced long-term technical debt.

## SELECTED PROJECTS

### FINVORAS | FLUTTER ENGINEERING ECOSYSTEM & INFRASTRUCTURE

Feb 2021 - Present

- **Modular Monorepo Architecture:** Architected a high-scale monorepo using Melos, decoupling the system into 6+ specialized packages to enable 80% code reuse and reduce "Time-to-Market" for new product prototypes to under 30 minutes.
- **Advanced UI Orchestration:** Engineered a context-independent theming engine (app\_orchestrator) utilizing WidgetsBinding internals to solve framework limitations and ensure global UI consistency across complex state transitions.
- **Custom Developer Tooling:** Developed a custom CLI (forked from flutter\_gen) to automate i18n synchronization, reducing manual translation overhead by 90% through automated key-mapping and script-based validation.
- **Static Analysis & Code Quality:** Authored and enforced Custom Lint rules (e.g., MustCallWorkerClose, AppInputRequiresClearFocus) to proactively eliminate memory leaks and UX inconsistencies at the compilation stage.
- **Local-First Reliability:** Designed a resilient "Read-only Cache" strategy using Hive, prioritizing server-side data integrity while ensuring a seamless offline experience for financial data visualization.
- **Automated DevOps:** Established robust CI/CD pipelines using GitHub Actions and Fastlane to automate build, test, and distribution processes for an ecosystem of multiple integrated applications.

## SKILLS

- Core Expertise: Flutter (Advanced), Dart, Dynamic UI Rendering, Performance Profiling (DevTools), Offline-first Logic (Hive).
- Architecture & Design: Clean Architecture, MVVM, SOLID, Modular Monorepo (Melos), Dependency Injection (GetIt).
- State Management: GetX (High Proficiency), Provider, Bloc (Basic).
- Full-stack Capabilities: NestJS, NextJS, Prisma ORM (Backend Support & Rapid Prototyping).
- DevOps & Infrastructure: CI/CD (GitHub Actions, Fastlane), Git Flow, Technical Documentation (Standardized).
- Languages: English Professional Working Proficiency (Strong technical reading & writing; VSTEP B1).

## EDUCATION

VIETNAM - KOREA UNIVERSITY OF ICT (VKU)

Aug 2019 - May 2024

Engineer in Software Engineering

- GPA: 3.25/ 4.0
- Honors: Top 20 - Best Web Design (SICT 2020).
- Activities: VKU Open Source Club, Karate Club.