Nguyễn Danh Hào (Twilight)

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Summary

Mobile Engineer with 5 years of expertise in Flutter and Android Kotlin, with additional knowledge in ReactJS and NodeJS for full-stack development. Passionate about implementing problem-first approaches to deliver innovative solutions with attention to both frontend experience and backend design. Seeking a collaborative environment to contribute technical expertise while building a long-term career focused on product excellence.

Professional Experience

Creator & Solo Engineer　　　　　　　　　　　03/2025 - Present
Xài Xịn - an AI-powered personal finance app

- **Conceptualized, designed and independently developed Xài Xịn**, a **personal finance tracking mobile app** targeting the **Vietnamese market.**
- **Managed the entire product lifecycle** from ideation and development to deployment, monitoring and iteration based on user feedback.
- **Engineered the full-stack solution** including a **Flutter mobile app** (Riverpod) and a **Node.js backend** (ExpressJS, TypeScript, PostgreSQL, Redis queue).
- **Implemented core features**: chat-based logging, reporting dashboards, budgeting tools, secure authentication and In-App Purchases.
- **Optimized performance and scalability** by improving **database queries** and **Redis queues** for async AI processing, alongside **mobile caching** and streamlined **Flutter build/state management.**
- **Designed an intuitive UI/UX** focusing on simplicity and a chat-first approach.
- **Developed a consistent brand identity** and landing page (ReactJS)**.**
- Refined and integrated AI for Vietnamese transaction parsing: **fine-tuned PhoBERT** initially, then shifted to an **API-based model with prompt engineering** for better accuracy and cost-efficiency
- **Successfully launched on App Store,** acquiring **200+ active users** and receiving **positive feedback for usability, minimalist design, innovative features.**

Mobile Leader
NOTT Innovative Technology

01/2024 - 11/2024

- **Led a 3-member team** in implementing modular app features and conducting code reviews adhering to SOLID principles.

- **Architected a scalable Feature-first Architecture in Flutter using Riverpod,** enhancing modularity, maintainability and state management efficiency.

- **Configured app flavors and CICD pipelines** with CircleCi and Fastlane, cutting deployment time.

- **Achieved a 32% reduction in app crashes and a 38% decrease in user churn** by integrating Firebase Analytics and Crashlytics for user interaction analysis.

- **Reduced app size by 8MB** through tree-shaking, resource optimization, and replacing heavy libraries with lightweight alternatives.

- **Reduced network latency by 52% and boosted responsiveness** by optimizing API calls with caching and batching.

- **Implemented native code plugins for both Android and iOS,** using BLE technology to provide solutions for smart device connectivity and interaction.

Mobile Engineer
Savvycom

02/2023 - 12/2023

- **Played a key role in developing a secure Mobile Banking platform** for **PRASAC Bank**, using **Jetpack Compose** and **Clean Architecture**. Made significant contributions by completing **the highest number of tasks** within a 15+ developer team, earning client recognition and a special reward.

- **Participated in the development of an employee relocation solution app** for **CapRelo**, using **Cubit/Bloc** and **MVVM** architecture pattern, **delivering Phases 1 and 2 two weeks ahead of schedule,** managing **40% of team tasks.**

- **Mentored junior developers** in adopting Flutter best practices, improving overall team productivity.

Software Developer

01/2021 - 01/2023

- **CHTLAB** (07/2022 - 01/2023): Built healthcare mobile apps (MQTT) and a decentralized wallet system (Solidity, Node.js).

- **TECHFUSION Team** (Freelancer, 01/2022 - 01/2023): Developed mobile apps (ecommerce, fitness) achieving significant downloads (100K+, 10K+) and user engagement.

- **VCCorp** (02/2021 - 01/2022): Implemented realtime messaging using WebSocket for a cross-platform internal chat application, ensuring low-latency communication.

Education

Bachelor of Science in Computer Engineering
2018 - 2022

VNU UNIVERSITY OF ENGINEERING AND TECHNOLOGY (UET)

- Graduate with distinction — Valedictorian

Skills

Technical Skills

- **Programming Languages:** Dart, Kotlin, Swift, JavaScript, TypeScript

- **Mobile/Web Development:** Flutter, Jetpack Compose, Swift UI, ReactJS

- **Performance Optimization:** UI Rendering, Memory Optimization, Memory Leak, Battery Efficiency, Network and Caching Strategies

- **Security:** Data encryption, Authentication & Authorization, Secure Storage, FIDO2, WebAuthn, Code Obfuscation

- **Software Design Principles:** Design Pattern, SOLID, Clean Code Practices

- **Software Architecture Patterns:** MVP, MVVM, Clean Architecture

- **DevOps:** Fastlane, CircleCi, CICD Pipelines, Monitoring & Logging, Version Control, Build & Release Management

- **Database:** SQLite, PostgreSQL, Firebase Firestore

- **Networking:** WebSockets, API Optimization, Secure Communication

- **Other:** Web3, Smart Contracts, Microservice Development, UI/UX Design

Soft Skills

- **Task management tools:** Notion, Jira

- **Task management methodologies:** Agile, Scrum

- Team Leadership & Mentoring

- English Communication

- Problem Solving and Critical Thinking

- Attention to Detail

- Time Management and Prioritization

- Adaptability and Continuous Learning