NOVI INDRA FANANI

Software Developer | Flutter, Android (Kotlin), ASP.NET

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PROFESSIONAL SUMMARY

Software Developer with 4+ years of hands-on experience building mobile (Flutter, Kotlin), web (ASP.NET, Laravel), and enterprise applications. Designed, built, and tested 10+ production applications that replaced manual, paper-based warehouse and logistics processes, saving approximately IDR 200 million per year in paper costs. Strong in Clean Architecture, SOLID principles, and BLoC state management. Certified Dicoding Flutter Developer Expert and Android Developer Expert. Experienced in leading a development team, mentoring IT interns, managing application releases (DevOps), and establishing coding and Git standards.

TECHNICAL SKILLS

- **Mobile Development:** Flutter, Flutter SDK, Android Native, Android SDK, Android Jetpack
- **Programming Languages:** Dart, Kotlin, Java, C#, Visual Basic, PHP, JavaScript, HTML, CSS, C, C++
- **Flutter Libraries:** BLoC/Cubit, Provider, RxDart, GetIt, Dio, Equatable, Freezed, Dartz, Sqflite, Shared Preferences, Build Runner, Firebase, Crashlytics, Google Maps Flutter, Mockito, bloc_test, SSL Pinning
- **Android (Kotlin) Libraries:** Retrofit, Coroutines, Room, Hilt, Dagger, Koin, ViewModel, RxJava, Timber, Firebase, Crashlytics, Mapbox, JUnit, Espresso, SSL Pinning
- **Architecture & Practices:** Clean Architecture, SOLID Principles, Design Patterns, OOP, Modularization, Model-View-Controller (MVC), Model-View-Presenter (MVP), Unit and Integration Testing, Code Standardization
- **Backend & Web:** ASP.NET, Laravel, CodeIgniter, REST API, Swagger, JSON, OneSignal, Pusher, IIS, Apache
- **Databases:** SQL Server, MySQL, SQLite, Firebase Realtime Database, Cloud Firestore
- **Tools & Methodology:** Git, GitHub, GitLab, Bitbucket, Azure, Jira, ClickUp, Agile, Scrum, Software Development Life Cycle (SDLC), Team Leadership

PROFESSIONAL EXPERIENCE

Supervisor, System Development Section - Digital Transformation Aug 2024 - Present

PT Panasonic Manufacturing Indonesia, East Jakarta | Information Systems Center (ISC) | ASP.NET, SQL Server, Flutter

- Developed Digital Stock Card, a tablet-based application for recording warehouse goods in and out with web monitoring, eliminating paper stock cards and cutting annual paper costs by IDR 97.13 million.
- Developed a Finished Goods Shipment application tracking goods from the warehouse to the loading container, with web monitoring and Android loading transactions, cutting paper costs by up to IDR 103 million per year.
- Consolidated separate warehouse applications into KOSMIX, a Warehouse Management System with modules including Digital Stock Card, Finished Goods Shipment, and Monthly Stock Taking.
- Design, develop, test, and deploy web and mobile digitalization solutions for warehouse, logistics, and training operations as a hands-on developer, while leading the System Development section.
- Act as DevOps for the department: publish and maintain all internal applications, schedule system releases, and manage application updates.
- Established coding standards and Git management practices for the department, used as the standard in cross-section collaboration projects.
- Lead a development team of one developer and mentor two IT interns per six-month cycle.
- Coordinate 1-2 IT interns in each Business Unit (Audio, AC, Fan, Laundry System, Refrigerator, Waterpump, Head Office) building applications with local PICs; oversee standardization, User Acceptance Testing (UAT), and production release.
- Developed Romansy Edu, an internal training management system with registration tracking, approval workflows, and automated email notifications.
- Maintained and enhanced People Traffic Control (PTC), a barcode-based web application for real-time monitoring of employee, guest, vehicle, and logistics entry and exit across company premises.
- Maintained and enhanced HSE-Connect (Human Safety Environment), integrated with the Work Permit system that manages contractor access and work permits within company premises.
- Maintained and enhanced the Quality Management System (QMS) for archiving, review, and approval of QA/QC documents.
- Built data synchronization programs to integrate employee master data across multiple internal applications.
- Conceptualized a centralized data lake architecture to enable future AI integration (currently at the planning stage).

Mobile Engineer Mar 2022 - Mar 2023

PT Majoo Teknologi Indonesia (SaaS platform for SME business management and point of sale), Malang | Flutter, BLoC

- Implemented BLoC state management with dependency injection, modular architecture, and design patterns to separate business logic from UI and improve testability and scalability.
- Developed service features and a commission system based on product documentation, applying clean code principles for readability and maintainability.
- Diagnosed and resolved crashes and technical issues (socket connections, database management, payment integration, tax calculation) using Firebase Crashlytics, structured logging, stack trace analysis, and performance profiling.
- Resolved 250+ tasks ranging from critical to low priority, including refactoring legacy code for better efficiency and maintainability.
- Ensured code quality through unit and integration testing and static code analysis, working in Agile two-week sprints with reviews and retrospectives.

Freelance Mobile Developer (Part-time) 2019 - 2022, 2023 - 2024

Self-employed, part-time alongside university studies (including thesis) and full-time roles | Flutter, Kotlin, Laravel

- Delivered 7+ Android applications for clients in scientific research, education, business, and technology, plus several personal projects.
- Built hybrid apps with Flutter (BLoC, Provider, Firebase, Google Maps, Midtrans payments) and native apps with Kotlin and Java (Android Jetpack: Lifecycle, ViewModel, LiveData).
- Built a mobile donation platform connecting donors, merchants, and donation recipients in one system: donors choose a donation type, merchants prepare the items, and delivery to the destination is tracked in the app (2023 - 2024).
- Developed backends with Laravel (Eloquent ORM, Passport API authentication) and Firebase (Realtime Database, push notifications), including user authentication, third-party API integration, and online payments.
- Developed a company landing page for a procurement company supplying motorcycle and car seat needs (2023 - 2024).
- Produced development documentation covering needs analysis, design, implementation, publication, and maintenance.

Software Engineer (Intern, then Full-time) Jun 2020 - Jul 2021

Codelaris, Malang | JavaScript, PHP, Laravel, Flutter, Ionic, Android Native

- Developed features for the merchand.id website (customer, product, and order features, form integration, and user sharing) using JavaScript, PHP, and Laravel.
- Developed a share-and-save image application for social media posting (Flutter).
- Developed a mobile app for monitoring accounts on the Snapixa web platform (Ionic).
- Started as an intern developing a business keyboard application (Android Native), then was hired as a full-time Software Engineer.

Software Engineer Intern Jun 2017 - Aug 2017

CV. Surya Gemilang, Surabaya | Visual Basic, SQL Server

- Analyzed, designed, and developed a desktop-based warehouse information system for a Honda motorcycle dealer using Visual Basic and SQL Server.

CERTIFICATIONS

- Flutter Developer Expert - Dicoding Indonesia (2024)
- Android Developer Expert - Dicoding Indonesia (2023)
- Clean Code Architecture, Uncle Bob (Flutter 3.7.1) - Udemy (2023)
- Full-Stack Laravel Flutter 2021: Building E-Commerce and Chat Apps - BuildWithAngga (2023)

EDUCATION

Universitas Negeri Malang (Malang State University) 2017 - Dec 2023

Bachelor's Degree in Informatics Engineering Education | GPA 3.64 / 4.00

Institut Teknologi Sepuluh Nopember (ITS) 2017

Diploma 1 (D1), Information Systems Programming (PAPSI) | GPA 3.81 / 4.00

PROJECTS, RESEARCH & ACHIEVEMENTS

- Bronze Medal, Indonesia International Invention Festival (I3F), 2020.
- Codelytic (2023, thesis): mobile and web problem-based learning application to improve students' critical thinking.
- Comel - Covid-19 Telemedicine (2022): remote patient monitoring with Arduino and IoT (IPR Reg. 000308394).
- IO-Tani (2020): hydroponic plant monitoring app (IPR Reg. 000222435). Sidedi (2020): early detection app for preventing radicalization (IPR Reg. 000188562).