ADE NUGROHO

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Information Technology undergraduate specializing in Front-End Engineering. Focused on building highly interactive and data-driven web interfaces using Next.js and TypeScript. Experienced in optimizing rendering performance for animation-heavy applications and architecting complex state logic for real-time data synchronization. Seeking a Front-End Internship to contribute to scalable and maintainable codebases.

Education

Universitas Brawijaya   Malang, East Java
Information Technology (S1) - GPA: 3.87 / 4.00   2023 - Present
- Relevant Courses: Advanced Web Development, Mobile Application Development, Algorithms & Data Structures, System Integration (API), AI & Machine Learning.

Work Experience

Fakultas Ilmu Komputer (FILKOM) UB   Malang, East Java
Laboratory Assistant   September 2025 - December 2025
- Mentored 50+ students on Modern Web Development (Laravel/PHP) and Algorithms (Java), focusing on debugging strategies and Git workflow fundamentals.
- Conducted weekly code reviews, providing technical feedback to improve students' code structure, readability, and logic implementation.
- Assisted in troubleshooting environment setup and error handling during practical sessions.

Event Committee Experiences

Mahasiswa Membangun Desa (MMD) - Group 15   Blitar, East Java
Event Division Committee   June 2025 - July 2025
- Led the digital transformation initiative for Karangrejo Village, bridging communication between technical team and village officials.
- Conducted training sessions for village staff on CMS usage, ensuring sustainable adoption of the new digital system.

Project Experiences

PrediAI - Medical System
Mobile Developer   2025
- Top 20 Finalist GEMASTIK XVIII (Selected from 376 teams).
- Architected a scalable Android codebase using Clean Architecture (MVVM), strictly separating UI (Jetpack Compose) from business logic.
- Implemented asynchronous AI inference using Kotlin Coroutines to ensure smooth UI performance by offloading heavy computations from the main thread.

SlotReality - Interactive Simulation Web
Front-End Developer   2025
- Won 2nd Place at ITECHNO CUP 2025 (Best Front-End Implementation).
- Optimized rendering performance for heavy animations by leveraging GSAP GPU-accelerated animations to deliver fluid and jank-free interactions.
- Implemented high-fidelity responsive designs using Tailwind CSS, ensuring pixel-perfect adaptation across diverse mobile viewports.

Qnectify - AI EdTech Platform
Front-End Developer   2025
- Honorable Mention at HOLOGY 8.0 for Software Innovation.
- Built a gamified learning interface consuming RESTful APIs (Gemini), implementing strict error handling and loading states.
- Improved SEO and initial load performance by implementing Server-Side Rendering (SSR) in Next.js for dynamic quiz content.

CalorEase - Health & Nutrition Platform
Front-End Developer   2025
- Engineered a real-time calorie tracking system using Next.js, utilizing React Context API to manage global state without prop-drilling.
- Integrated Firebase Authentication and Firestore to handle secure user data synchronization and seamless session persistence.
- Developed a modular component library to ensure UI consistency across the platform.

Other Projects:
- SENTINEL (Web3 Marketplace): Integrated Smart Contract interactions for warranty verification using Next.js.
- EasyGo (Map Platform): Developed complex filtering logic on Maps API to categorize locations based on user preferences.

Achievements

Finalist Software Development - GEMASTIK XVIII (National ICT)   2025
2nd Place Front-End Development - ITECHNO CUP   2025
1st Honorable Mention Software Dev - HOLOGY 8.0   2025

Skills

- **Core Stack**: TypeScript, JavaScript (ES6+), Next.js (App Router), React.js, Kotlin.
- **Engineering**: REST API Integration, State Management (Context API/Hooks), Clean Architecture, SSR, Component Reusability.
- **Tools & Performance**: Git/GitHub, Docker, Firebase, Figma, Postman, Lighthouse.
- **Soft Skills**: Mentoring, Cross-functional Collaboration, Adaptability, Attention to Detail.
- **Languages**: Indonesian (Native), English (Intermediate).