

LISTIANANDA APRILIAWAN

Frontend Engineer | React, React Native, Next.js & TypeScript

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SUMMARY

Frontend Engineer with 6+ years of experience building production-grade web and mobile applications across the JavaScript and TypeScript ecosystem. Specialized in React Native for iOS and Android, with strong experience in React, Next.js, and modern frontend architecture, plus hands-on backend development using Node.js, Bun, Hono, Express, PostgreSQL, and REST APIs. Experienced in owning features end-to-end, from UI implementation and API development to testing, production debugging, performance optimization, CI/CD, and release. Comfortable working across frontend, backend, product, design, QA, DevOps, and security teams in large-scale production environments.

EXPERIENCE

Dicoding Indonesia *Code Reviewer*

Bandung. Remote (Part-time)
March 2026 - Present

- Review JavaScript and TypeScript submissions across React frontend and Node.js backend courses, evaluating component architecture, state management, REST API integration, usability, and overall code quality.
- Assess frontend implementation against software development best practices, including reusable component design, clean code, modularity, maintainability, scalability, automated testing, and performance considerations.
- Identify bugs, edge cases, inefficient implementations, and architectural issues, then provide clear and actionable recommendations to improve reliability and user experience.

Airpaz.com *Frontend Developer*

Jakarta. Onsite (Full-time)
April 2025 - June 2026

- Developed and maintained production features for iOS and Android travel-booking applications serving **1M+ active users** using React Native and TypeScript, covering UI implementation, REST API integration, testing, and release.
- Collaborated closely with UI/UX designers, product managers, backend engineers, QA, and infrastructure teams to translate business requirements and product specifications into intuitive, reliable, and maintainable user experiences.
- Implemented **progressive JSON loading** across key booking flows to reduce perceived load time on slower networks, contributing to a **30% increase in user retention through the booking journey**, as measured through internal analytics tracking.
- Built reusable frontend components and improved TypeScript architecture, reducing TypeScript errors by **50%** through stronger type definitions, refactoring, and safer implementation patterns.
- Investigated complex production issues using Sentry, performed root-cause analysis, implemented fixes, and documented technical findings and solutions in Confluence.

- Developed reusable end-to-end testing workflows with Maestro for critical booking journeys, reducing manual regression testing effort by approximately **40% per release**.
- Worked extensively with Git-based development workflows, including pull requests, code reviews, branch management, and merge-conflict resolution across parallel feature development.
- Implemented internal analytics tracking across critical booking and payment events to measure user behavior, identify drop-off points, and provide production data for debugging and product improvements.
- Developed a Slack release-status bot and integrated it into the CI/CD pipeline to automate Android and iOS deployment notifications.

AIA Singapore
Software Engineer

Singapore. Hybrid (Full-time)
Feb 2023 - April 2025

- Developed and maintained production web and mobile applications for a large-scale insurance and financial services platform serving **100K+ active users** using React Native, React, Next.js, and TypeScript.
- Built and enhanced **Elevate**, a Next.js application for insurance claim-management workflows, including reusable UI components, REST API integration, data-heavy interfaces, filtering, search, pagination, reporting, and production issue resolution.
- Maintained and enhanced the **MyAIA Marketplace** legacy React application, delivering bug fixes and new features based on evolving business and user requirements.
- Developed a lightweight internal **Node.js API** to manage production application version status and support internal operational workflows.
- Collaborated with product managers, designers, QA, backend engineers, DevOps, security, and business stakeholders across multiple countries to translate requirements into reliable and maintainable product features.
- Managed mobile application releases to **Google Play Store and Apple App Store**, including build preparation, release coordination, production submission, and post-release validation.
- Led React Native upgrades and technical-debt reduction initiatives, improving compatibility, maintainability, security, and long-term application stability.
- Partnered with DevOps engineers to improve CI/CD pipelines and troubleshoot build and deployment issues, reducing build-and-release turnaround time by approximately **45 minutes**.
- Resolved dependency vulnerabilities and security findings identified through Snyk and Twistlock, maintaining zero known security vulnerabilities and preventing security issues from blocking production releases.
- Investigated production incidents, performed root-cause analysis, implemented corrective fixes, and documented technical findings and operational procedures in Jira and Confluence.

PT Purnama Laboratory
Independent Software Contractor

Bekasi. Remote (Part-time)
Oct 2022 - Jan 2023

- Designed and developed a full-stack application from scratch using **React, TypeScript, Node.js, and Firebase**, covering frontend development, backend services, data integration, and application delivery.
- Collaborated directly with stakeholders during requirement and product-planning sessions, creating initial **wireframes and low-fidelity prototypes in Balsamiq**, then refining the approved concepts into detailed UI designs in **Figma** before implementation.
- Owned features end-to-end from requirement clarification and UI prototyping through frontend implementation, API development, testing, and delivery.

Oxy Creative
Software Developer

Jakarta. Remote (Full-time)
Feb 2020 - Nov 2022

- Developed and maintained web and mobile applications using **Laravel, Bootstrap, JavaScript, React Native, and REST APIs** for banking, enterprise, and government clients.
- Built responsive web interfaces with **Laravel Blade and Bootstrap**, translating business requirements into functional, user-friendly pages and integrating frontend components with backend services.
- Developed and maintained a **Face Recognition and Liveness Detection SDK** for secure E-KYC and biometric authentication workflows used by banking, enterprise, and government clients.
- Worked directly with clients and internal teams to clarify requirements, support integration, troubleshoot issues, and deliver solutions for organizations including **Bank Syariah Indonesia, BNN, and INAFIS POLRI**.

EDUCATION _____

Computer Science, Universitas Bina Darma
Bachelor's Degree

PROJECTS _____

- [Airpaz: Flights & Hotels](#)
Large-scale OTA mobile application for flight and hotel booking, built with React Native, TypeScript, REST APIs, and native mobile integrations. Contributed to booking flows, payment experiences, performance improvements, production debugging, analytics tracking, and automated E2E testing.
- [AIA eBenefits \(Customer App\)](#)
Insurance and employee-benefits mobile application built with React Native and TypeScript. Contributed to feature development, REST API integration, React Native upgrades, production issue resolution, security remediation, and CI/CD improvements.
- [Ringkaskata.com](#)
Full-stack web publication platform built with Next.js, TypeScript, Tailwind CSS, Bun, Hono, PostgreSQL, and Cloudflare. Developed both frontend interfaces and backend services, including API integration, data persistence, and application deployment.
- [Naandalist.com](#)
Personal portfolio and technical blog built with Astro, TypeScript, Tailwind CSS, Vercel, and Cloudflare, focused on lightweight architecture, responsive UI, performance, and technical content publishing.

OPEN SOURCE _____

- [@naandalist/patch-package](#)
Maintained a security-focused fork of patch-package to address dependency vulnerabilities while preserving compatibility with existing patch workflows.
- [Secure file validator](#)
Built a Node.js library for validating uploaded files through file-signature checks and malicious-content detection to improve application upload security.

PUBLICATION

- [Design and Development of a Contextual Search System for Qur'anic Text Based on Large Language Models \(LLMs\) or Artificial Intelligence \(AI\)](#)
Institute of Research and Community Service (LP2M) IAIN Syaikh Abdurrahman Siddik Bangka Belitung
- [Development of a Mobile-Based Trivia Game to Facilitate Memorization and Understanding of Short Quranic Chapters for Children](#)
APTIKOM Sumatera Selatan

CERTIFICATIONS

- [Back-End Developer Expert — Dicoding Indonesia](#)
RESTful API, Node.js, Clean Architecture, Automated Testing, CI/CD, Security, and Scalability
- [React Web Developer Expert — Dicoding Indonesia](#)
React, Redux, State Management, Automated Testing, Performance Optimization, and CI/CD

TECHNICAL SKILLS

- **Frontend Development:** React, React Native, Next.js, Astro, TypeScript, JavaScript (ES6+), Tailwind CSS, Bootstrap, Reusable Component Development
- **UI/UX & Prototyping:** Figma, Balsamiq, Wireframing, UI Implementation, Design-to-Code,
- **State Management & API Integration:** Redux, Context API, REST API Integration, JSON, JWT, OAuth
- **Testing & Code Quality:** Jest, Vitest, Playwright, e2e Maestro, Unit Testing, Integration Testing, End-to-End Testing, Code Review, Debugging, Root-Cause Analysis
- **Performance & Monitoring:** Performance Optimization, Sentry, Dynatrace,
- **Backend & Database:** Node.js, Bun, Express.js, Hono, REST API Development, PostgreSQL,
- **Mobile Release & Publishing:** Google Play Console, Apple App Store Connect
- **Git & Collaboration:** Git, GitHub, GitLab, Merge Conflict Resolution, Agile, Scrum, Jira, Confluence
- **DevOps & Deployment:** CI/CD, GitHub Actions, GitLab Runner, Jenkins
- **Security:** Snyk, Twistlock, Dependency Vulnerability Management,
- **Languages:** Bahasa Indonesia (Native), English (Professional Working Proficiency)