Wahyu Kurniawan

Senior Full-Stack Engineer · Product-minded · TypeScript, React, Node.js, iOS

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Senior full-stack engineer with 7+ years of experience building web, mobile, backend, and internal products for global teams. Strong expertise in TypeScript, React, Next.js, Node.js, PostgreSQL, cloud-based development workflows, and product-focused engineering, with experience across AI products, fintech, Web3, and native iOS development. Proven track record of owning products end-to-end, leading engineers, modernizing production systems, and collaborating effectively across US, EU, and APAC time zones.

TECHNICAL SKILLS

- Languages: TypeScript, JavaScript, Swift, SQL
- Frontend: React, Next.js, React Native, SwiftUI, Tailwind CSS
- Backend: Node.js, NestJS, Express.js, REST APIs, WebSocket, Microservices
- Data: PostgreSQL, MongoDB, Drizzle ORM, Redis
- Cloud & DevOps: AWS, Docker, GitHub Actions, GitLab CI/CD
- Architecture: Clean Architecture, Monorepo, Nx, pnpm, Design Systems
- Domains: AI Products, Web3, Fintech, iOS

EXPERIENCE

AIRFOIL STUDIO — *Contract Product Engineer (Freelance)* July 2026 - September 2026

- Rejoined Airfoil for recurring client engagements across web, React Native, and iOS products.
- Built and shipped production features across multiple client projects, including a React Native product with reusable components, authentication, APIs, and WebSocket-based functionality.
- Contributed to an iOS AI chat product, building text and voice chat experiences, backend integrations, real-time conversation flows, and polished UI states.
- Modernized existing codebases through large-scale module refactoring, design system improvements, API integration, and UI/animation polishing.

BLACK JET — *Full Stack Developer* May 2025 - June 2026

- Rebuilt the backend platform from the ground up, replacing a legacy monolith with 4 production microservices using NestJS, TypeScript, Nx, pnpm, and Clean Architecture, enabling parallel development and improving scalability and maintainability.
- Migrated the data layer from MongoDB to PostgreSQL using Drizzle ORM and built 17 reusable internal libraries for authentication, RBAC, database access, logging, queues, storage, payments, notifications, and shared utilities.
- Automated CI/CD across development, staging, and production using GitHub Actions, Docker, and AWS, and implemented 1,000+ unit and integration tests to improve release reliability and regression coverage.
- Built core product capabilities including payment integration, recurring subscriptions, customer support chat, notifications, CMS, S3 storage, PDF invoices, and Redis/BullMQ background jobs.
- Worked directly with the CEO and a small cross-functional product team to align business priorities, technical decisions, and product delivery.

AIRFOIL STUDIO — *Product Engineer* February 2022 - April 2025

- Delivered 20+ client projects for global startups, owning selected products end-to-end from development to production, including Tap Game on Eclipse Chain, Moongate, and OpenInnovation, while contributing to Magna and Nifty League.
- Built Web3 dashboards and blockchain-integrated features across Ethereum, Solana, NEAR, and Eclipse, including end-to-end user dashboard development for Magna.
- Improved web performance by increasing Lighthouse scores from below 80 to 95+, reducing page load times to under 3 seconds, and optimizing WebGL rendering by shifting CPU-heavy workloads to the GPU.
- Built reusable frontend infrastructure used by 6 engineers, including 20+ shared components and internal packages, reducing duplication and accelerating development.
- Developed AI-integrated internal tools, automated CI/CD and per-PR preview deployments, and led technical delivery through architecture discussions, code reviews, mentoring, and direct client collaboration.

XENDIT — *Tech Lead* September 2021 - January 2022

- Led a 5-engineer team and owned end-to-end delivery, architecture, release, and coordination for Xendit Dashboard integrations with platforms including WooCommerce and Shopify.
- Built integration workflows from scratch to simplify how existing merchants connected Xendit products with third-party platforms and internal services.
- Partnered with Product Managers and engineering teams to define architecture, technical scope, and delivery priorities.
- Interviewed 10+ candidates and helped hire 3 engineers, including 1 frontend and 2 backend engineers.

XENDIT — *Senior Software Engineer* August 2020 - September 2021

- Built and shipped 2 production fintech applications: an internal Nex operations dashboard and a customer-facing Xendit credit card onboarding dashboard.
- Developed banking operations features including user management, transactions, KYC, and waitlist onboarding, helping operations teams manage banking workflows more efficiently.
- Built APIs and production features for Nex, a digital banking product with 100K+ Google Play downloads.
- Automated deployments across 4 environments using Buddy.works, Helm, Terraform, and GitHub, reducing manual release steps.
- Diagnosed and resolved production onboarding issues caused by backend eligibility logic affecting waitlist routing.

SEVIMA — *Full Stack Developer* June 2019 - July 2020

- Built and shipped end-to-end accreditation and internal audit systems for universities including Universitas Ciputra, Universitas Airlangga, STIESIA Surabaya, and other institutions.
- Designed full-stack applications from scratch using PHP/Lumen, React, TypeScript, PostgreSQL, and REST APIs with a focus on scalability and production readiness.
- Contributed to SEVIMA's academic technology ecosystem serving 110+ universities, working directly with university stakeholders to translate accreditation requirements into production features.
- Served as the sole Full Stack Developer for maukuliah.id, working with a Product Manager and Product Designer to build frontend and backend features end-to-end.
- Replaced manual deployments with automated GitLab CI/CD workflows.

PROFESSIONAL DEVELOPMENT

APPLE DEVELOPER ACADEMY — *iOS Product Development & Innovation Program* March 2026 - Present

- Built iOS product prototypes using Swift, SwiftUI, Xcode, and Apple development tools.
- Applied product discovery, user research, prototyping, usability testing, and iterative development.
- Translated real user problems into testable iOS product concepts with a focus on accessibility and product validation.

OPEN SOURCE

- **railway-preview-deploy:** GitHub Action for automated Railway preview deployments on pull requests.
- **cenglu:** Zero-dependency TypeScript logger for Node.js with production-focused APIs.
- **poopita:** Private iPhone bowel diary with on-device logging, patterns and PDF/CSV exports.
- **skeleton-reveal:** Agent skill for dotted UI reveal animations with a dependency-free runtime.
- **translatone:** Raycast extension for AI text translation with tones for LinkedIn, email and chat.

EDUCATION

INSTITUT TEKNOLOGI SEPULUH NOPEMBER — *Instrumentation Engineering* August 2015 - September 2018