

Nata Nael, Software Engineer

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Software Engineer with a proven track record of architecting enterprise-grade applications, ERP systems, and real-time GIS trackers. Experienced in modernizing legacy architectures, reducing technical debt, and optimizing server-state data fetching.

Skilled in React, VueJS, TypeScript, Golang, Rust, PostGIS Familiar with Cloudflare Workers and Pages.

Employment

Senior Software Engineer - Synapsis.id

April 2025 - Now

Tech Stack: NextJS, React, Rust, Axum, Typescript, TanStack Query, Cesium, PostGIS

- Architected and deployed a real-time mine fleet telemetry tracker using Rust and CesiumJS, enabling low-latency, terrain-aware 3D geospatial visualization of active vehicles
- Developed and maintained 8+ enterprise projects, focusing on ERP systems and internal tools that streamlined workflows via IoT and GIS monitoring.
- Migrated legacy application architectures to modern Next.js environments, establishing strict TypeScript interfaces using Zod to reduce technical debt and accelerate feature delivery cycles.
- Decreased reported bugs by 80% when developing new features for a Supply Chain Web Application by engineering automated E2E testing pipelines.

Software Engineer & Technical Trainer - Shopee

July 2022 – March 2025

Tech Stack: React, VueJS, NextJS, UmiJS, TanStack Query, Swagger, Sentry

- Developed a centralized LMS and Survey Management System utilized by 1,000+ employees across 3 countries, leveraging TanStack Query for highly optimized server-state caching.
- Engineered an automated HRIS data integration workflow by orchestrating complex API integrations (defined via Swagger), reducing survey setup time by 50% and eliminating manual data reconciliation for 65+ personnel.
- Improved decision-making accuracy by architecting A/B testing pipelines to programmatically identify the most effective UI/UX and feature variations.
- Conducted training sessions and personalized one-on-one mentoring for junior engineers, fostering their professional growth and proficiency in tech stacks.

Software Engineer - StickEarn

December 2021 – June 2022

Tech Stack: VueJS, Tailwind CSS, SCSS, Ant Design, Storybook

- Developed Advertising Media Dashboard for renting 50+ digital and mobile billboards across Jakarta.
- Improved functionality of the Advertisement Monitoring Dashboard by contributing feature enhancements using Vue.js, Tailwind CSS.
- Increased development velocity by developing an internal component system for Front End Team and implementing Storybook for the component documentation.
- Reduced campaign analysis time by implementing Google analytics to analyze user behavior in the web app.