ADE NAFIL FIRMANSAH

Full-Stack Developer

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PROFESSIONAL SUMMARY

Informatics graduate experienced in building end-to-end applications for UMKM e-commerce, enterprise asset management, and university course scheduling. Proficient in TypeScript, React, Laravel, and NestJS across relational databases, REST APIs, background processing, automated testing, and containerized deployment.

EXPERIENCE

Universitas Internasional Semen Indonesia — Gresik, Indonesia

Junior Full-Stack Developer, Volunteer Project — December 2025 – August 2026

- Developed *Sistem Penjadwalan Kuliah* (University Course Scheduling System), a TypeScript monorepo combining a TanStack Start frontend, NestJS API, Prisma ORM with MySQL, and a Bun-based optimization worker.
- Implemented Redis-backed optimization jobs with BullMQ and real-time WebSocket progress, enforcing lecturer, room, capacity, study program, and institutional scheduling constraints.
- Built Excel import/export, PDF timetable generation, role-based authentication, and Docker Compose deployment, supported by more than 170 test files across the API, frontend, and worker.

PT Petrokopindo Cipta Selaras — Gresik, Indonesia

Full-Stack Developer Intern — September 2025 – December 2025

- Developed an internal asset inventory platform using Laravel, React, TypeScript, Inertia.js, and MySQL to manage assets, models, types, locations, employees, and organizational units.
- Implemented asset assignment and return workflows, document uploads, QR-based public asset details, role-based access control, activity logging, and searchable management interfaces.

SIDNOV Indonesia — Gresik, Indonesia

Junior Full-Stack Developer, Volunteer Project — February 2025 – July 2025

- Built a full-stack e-commerce platform for a local UMKM using Laravel, React, TypeScript, Inertia.js, and MySQL, covering product discovery, carts, wishlists, checkout, orders, reviews, and customer accounts.
- Integrated Google OAuth, Tripay QRIS payments, shipping workflows, cashback vouchers, and email broadcasts, alongside an admin workspace for products, content, coupons, orders, and campaigns.

EDUCATION

Universitas Internasional Semen Indonesia (UISI) — 2022 – 2026

Bachelor's Degree in Informatics — GPA: 3.72

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, PHP

Frontend: React, Next.js, TanStack Start, Vue 3, Nuxt 3, Inertia.js, Tailwind CSS

Backend: Laravel, NestJS, Node.js, Bun, Express.js, Hono

Data & Infrastructure: MySQL, PostgreSQL, SQLite, Redis, Prisma, Drizzle ORM, BullMQ

Testing: Jest, Vitest, PHPUnit, Bun test

Tools & DevOps: Git, GitHub Actions, Docker, Linux, Nginx, Vite, Turborepo

CERTIFICATIONS

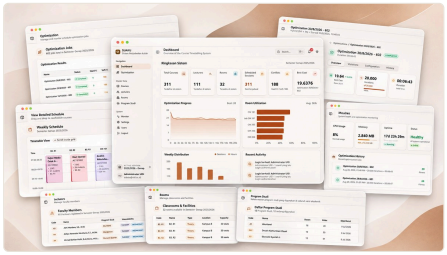
EnglishScore Core Skills Test — CEFR C1 (Advanced), Score 515 — British Council — August 2026

PHP Programming: Beginner to Advanced — Programmer Zaman Now, Udemy — March 2024

JavaScript Programming: Beginner to Advanced — Programmer Zaman Now, Udemy — November 2023

PORTFOLIO

Selected projects · full case studies at adenafilfirmansah.my.id/works



Sistem Penjadwalan Kuliah (SIJAKU)

Case study

Thesis & volunteer project · UISI

Academic timetabling system combining academic master data, hybrid simulated annealing and tabu search optimization, constraint validation, guarded drag-and-drop adjustments, and printable PDF export. Built as a volunteer project and undergraduate thesis at UISI.

TypeScript · TanStack Start · NestJS · Prisma · MySQL · Redis · BullMQ

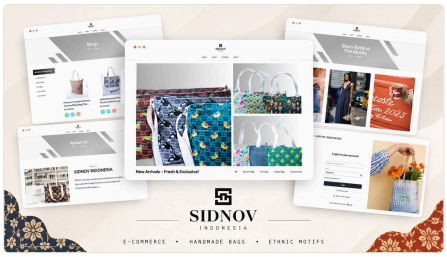


Wordkeep

Case study

Private vocabulary archive for learning English from films, series, and articles. Each term keeps its original scene and encounter timeline, with OCR-assisted capture, deliberate reviews, progress statistics, and Web Push reminders.

React · Bun · Hono · PostgreSQL · Drizzle · Tesseract

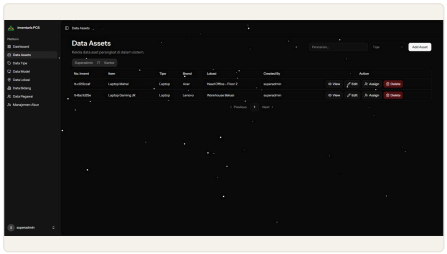


SIDNOV

Case study

E-commerce platform for an Indonesian handmade bag brand, covering product discovery, carts, QRIS checkout, order tracking, reviews, editorial stories, and an administration workspace for products, orders, and campaigns.

Laravel · React · Inertia.js · MySQL · QRIS · Google OAuth

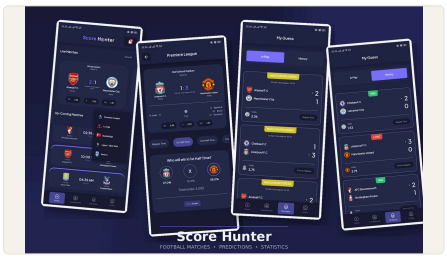


Inventaris PCS

Case study

Internal asset inventory system for PT Petrokopindo Cipta Selaras, with centralized asset records, assignment and return workflows, document uploads, QR-based public lookup, and role-based administration.

Laravel · React · Inertia.js · MySQL · Fortify · shadcn/ui

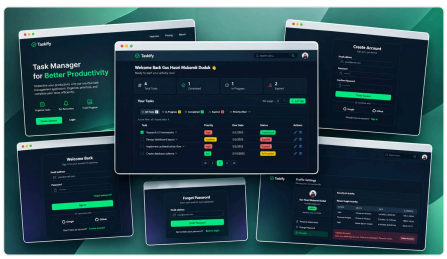


Score Hunter

Case study

Flutter football companion with live and upcoming fixtures, match predictions, prediction history, profiles, and leaderboards, backed by a TypeScript API that syncs match data and validates results.

Flutter · Dart · Express · Prisma · MySQL · Firebase

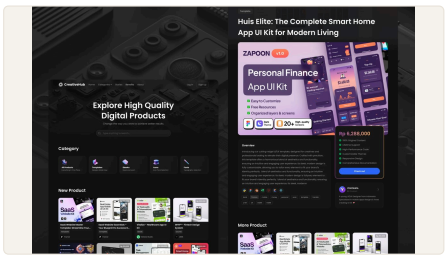


Taskify

Case study

Full-stack task manager with search, status and priority filters, due-date reminders, Google and GitHub sign-in, activity logs, and browser push notifications through a Nuxt frontend and Laravel API.

Nuxt 3 · Vue 3 · Laravel · Sanctum · SQLite · Web Push



CreativeHub

Case study

Digital product marketplace connecting creators and buyers through catalog search, cart and manual-payment checkout, seller order management, reviews, and post-purchase asset delivery.

Laravel 11 · Blade · Alpine.js · Tailwind CSS · MySQL