

MUHAMAD IRFAN MAULANA

SENIOR FRONTEND ENGINEER

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PROFESSIONAL SUMMARY

Senior Frontend Engineer with 5+ years of experience building enterprise web applications, PWAs, real-time operational dashboards, and geospatial systems. Strong in React, Next.js, and TypeScript, with hands-on ownership of frontend architecture, interactive mapping, web performance, testing, observability, design systems, and engineering standards. Experienced in remote, cross-functional teams, code review, and mentoring engineers.

CORE EXPERTISE

Frontend & mobile: React, Next.js, TypeScript, JavaScript, Vite, Tailwind CSS, PWA, Capacitor (Android/iOS)
Geospatial & data UI: React Leaflet, React Google Maps, interactive mapping, geospatial visualization, real-time dashboards
State & data: TanStack Query, Zustand, React Hook Form, GraphQL
Quality & observability: Cypress, Vitest, SonarQube, Sentry, CI/CD
Platform: Node.js, Express.js, Supabase, Docker, AWS, Vercel

PROFESSIONAL EXPERIENCE

Frontend Engineer | SQE (S-Quantum Engine)

Jul 2025 - Present

Remote

- Build frontend applications for mining-operation intelligence products using Next.js, TypeScript, Tailwind CSS, React Leaflet, TanStack Query, and Vitest.
- Build **OneMAP (One Mining Automation Platform) for Berau Coal**, a centralized, responsive web platform that unifies operational and spatial intelligence for mining stakeholders.
- Contribute to OneMAP MVP capabilities spanning operational-data chatbot workflows, boundary management, interactive map views, compliance scoring, unit tracking, alert management, and fuel management.
- Develop interactive mapping and dashboard workflows that bring together production data, work-area boundaries, unit movement, and compliance information for data-intensive operational use cases.
- Package the OneMAP web experience as a Capacitor mobile application for Android and iOS, using native capabilities for network awareness, local preferences, and file handling.
- Deliver **SIDX Berau Coal**, a social-investment data platform for beneficiaries, household surveys, validation, assistance programs, realization history, stakeholders, and map-based views.
- Build form-heavy, data-driven SIDX workflows with React Hook Form, Zod, TanStack Query, React Google Maps, React PDF, and Vitest; contribute reusable frontend patterns across SQE products.
- Build performance-focused interfaces for real-time mining workflows and deliver the SQE corporate website.

Frontend Engineer (Contract via Sobatbisnis Group) | ParagonCorp

Mar 2025 - Jul 2025

Jakarta, Indonesia

- Delivered features for Heron, Paragon's Warehouse Management System, supporting operational warehouse workflows.
- Established Cypress end-to-end tests and raised automated code coverage to at least 80%, strengthening release confidence and maintainability.

Product Engineer | Sobatbisnis Group

Feb 2025 - Jul 2025

South Jakarta, Indonesia

- Revamped the VSPN sales-management application and delivered Akasia365mc, a healthcare-management system, using Next.js.
- Standardized frontend delivery by creating a shared React/Tailwind design system, an SVGR icon library, and a reusable Next.js starter template.
- Owned Frontend Engineering Specifications to align scope, implementation decisions, and handoff across projects.

PROFESSIONAL EXPERIENCE - CONTINUED

Frontend Engineer | eFishery

Dec 2022 - Feb 2025

Remote

- Optimized customer-facing PWAs - eFisheryKu, eFresh, and FeedHub - through JavaScript bundle reduction, fewer network requests, improved caching, and Sentry monitoring.
- Raised dropship transaction validity from 0% to 100% by delivering a Dropship Agent Tracking System.
- Improved end-to-end logistics and inventory workflows through internal product-tracking and warehouse input/output tools.
- Built operational products across shrimp, fish, supply, supplier, financing, and mid-mile traceability workflows using React, Vite, TypeScript, and Refine.
- Improved engineering quality through peer code reviews, Vitest coverage, SonarQube analysis, performance monitoring, and error tracking.

Frontend Engineering Mentor | Alterra Academy

Feb 2023 - Jun 2023

Remote | Freelance

- Designed React learning materials, technical challenges, and assessments for Indonesia's MSIB Batch 4 program; mentored 23 students.

Frontend Developer | IDstar Cipta Teknologi

Dec 2021 - Dec 2022

South Jakarta, Indonesia

- Built a real-time Meeting Space application with React, WebRTC, and Socket.IO; developed responsive workplace products and their design system.
- Rebranded and delivered Mattermost clients for desktop with React/Electron and mobile with React Native.
- Led two frontend developers, provided technical coaching and code review, and maintained quality standards using SonarQube.

Academic Specialist, Information Technology | Kelas Pintar

Sep 2020 - Nov 2021

South Jakarta, Indonesia | Contract

- Coordinated expert teachers, digital learning content, and operational tracking for the Tanya and Live Teaching services.

Graphic Designer | Ministry of Energy and Mineral Resources

Nov 2020 - Present

Remote | Freelance

- Produce event and web communication assets, including banners, infographics, data visualizations, and video graphics for DJEBTKE initiatives.

Frontend Developer Intern | National Civil Service Agency (BKN)

Aug 2020 - Apr 2021

Depok, Indonesia

- Developed Next.js/Laravel interfaces for SI-ASN and multiple national civil-service modules, including planning, agency transfer, legal support, interoperability, user management, and administration.

SELECTED PRODUCT PROJECT

Juwal POS | Founder & Product Engineer

Next.js 16, React 19, TypeScript, Tailwind CSS, Supabase, TanStack Query, Zustand, React Hook Form, Zod, PWA

- Building a mobile-first, installable PWA point-of-sale platform for Indonesian micro and small businesses, covering authentication, store-aware access, product and inventory management, and sales transactions.
- Implementing POS workflows with product search, barcode/SKU scanning, cart and checkout, stock validation, QRIS/online/in-person transaction types, and shareable purchase receipts.
- Developing financial dashboards and PDF reporting for revenue, gross and net profit, expenses, and transaction history; using Supabase Auth, Row Level Security, database, and storage for secure application data.

EDUCATION

Master of Information Systems Management

Gunadarma University, Depok

2021 - 2023

GPA 3.86/4.00

Bachelor of Information Systems

Gunadarma University, Jakarta

2017 - 2021

GPA 3.79/4.00

ADDITIONAL

Languages: Indonesian (Native), English (Professional working proficiency)

Recognition: Sarjana-Magister dual-degree scholarship; Top 10 finalist, Marine Plastic Debris Visualthon 2019.