

MUHAMMAD CHAERUL HAFIZ

Full Stack Engineer | React • TypeScript • NestJS • Node.js • PostgreSQL • Flutter

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PROFESSIONAL SUMMARY

Full Stack Engineer with 5+ years shipping production web and mobile systems end to end. Lead frontend on an enterprise DevSecOps platform serving 100+ organizations (React, TypeScript), and builder of its backend microservices in NestJS and Node.js, including a report engine that cut generation time by 60 to 80%, a real-time WebSocket AI service, and Kafka pipelines into ClickHouse. Delivered a nationwide dual-platform product (Flutter + React) in 2 months. DevSecOps background brings security, CI/CD, and Kubernetes operations awareness to everything shipped.

KEY COMPETENCIES

Frontend	React.js, Next.js, TypeScript, Redux Toolkit, Zustand, Material UI, Vite
Backend	Node.js, NestJS, REST API design, WebSocket, Kafka
Mobile	Flutter, Dart (published on Play Store and App Store)
Databases	PostgreSQL, MySQL, MongoDB, Redis, ClickHouse
Auth & Security	RBAC, JWT (refresh and claim-based gating), 2FA (TOTP), DevSecOps: SAST, DAST, SCA
Cloud & DevOps	Docker, Kubernetes (K3s), ArgoCD, Jenkins CI/CD, Google Cloud, Linux
Quality	Playwright E2E automation, performance optimisation, production debugging

WORK EXPERIENCE

Full Stack / Software Engineer

Apr 2021 to Present

PT. Inovasi Informatika Indonesia • Jakarta, Indonesia

ClearAnts (formerly I3GIS) • enterprise DevSecOps platform serving 100+ organizations across 1,000+ projects

- Lead frontend across 5 security modules (Application, DAST, Mobile, Infrastructure, Container), authoring ~640 of 900+ commits: React / TypeScript dashboards unified into a single pane of glass with RBAC and 2FA.
- Built backend microservices in NestJS / Node.js: a server-side report engine (Puppeteer + PDF merge) that cut report generation from 5 to 8 minutes down to 1 to 2 (60 to 80% faster) and removed export crashes; a real-time WebSocket AI service integrating Claude, ChatGPT, and DeepSeek with Redis caching; and ServiceNow / Jira ticketing integrations.
- Engineered Kafka producer/consumer pipelines centralising scattered scan findings into ClickHouse as a single source of truth; built a daily Playwright E2E pipeline with Discord alerts that replaced routine manual regression checks.
- Co-leading migration from Docker Compose to a 3-node Kubernetes (K3s) HA cluster with ArgoCD GitOps and Jenkins CI/CD.

LandLink • Mitratel (Telkom Group) • land acquisition platform covering 35,000+ telecom tower sites

- Delivered a dual-platform product (Flutter iOS/Android + React web admin) end to end in 2 months, replacing a manual Google Form workflow with one system now deployed nationwide and used by field negotiators and landlords across Indonesia.
- Optimised geospatial rendering of 35,000+ sites with viewport-bounded, zoom-aware marker fetching (~97% fewer markers per view), keeping the dashboard smooth where full rendering froze the browser; Excel bulk import with validation preview cut site onboarding time by ~80%.
- Shipped 16 feature modules including geofenced GPS check-in (100 m), Firestore real-time negotiator-to-landlord chat, tiered contract expiry reminders (90/60/30/7 days), and SLA-driven ticketing under JWT claim-based RBAC; safeguarded quality with a 44-case Playwright E2E suite and Crashlytics monitoring.

Oli3 • internal operations platform, 10+ modules

- Led frontend from initial scaffold to production (55% of 560+ commits over 2.5 years): RBAC middleware for 10+ roles, Redux Toolkit state architecture, and the admin console; first release delivered in 3 months covering approvals, sales pipeline, rebate, KPI, HR, and timesheets.

Software Engineer & System Administrator

PT Teknologi Karya Indonesia · Jakarta, Indonesia

- Developed and enhanced Adempiere ERP modules (Java) and Flutter mobile apps; designed JasperReports for management reporting; managed Google Cloud infrastructure covering performance monitoring, security hardening, and service reliability.

Computer Technician & Lab System Administrator

LEPKOM · Universitas Gunadarma, Jakarta, Indonesia

- Led emergency migration of a 6,000-client university lab to fully remote access during COVID-19: deployed Apache Guacamole with NGINX and a MariaDB Galera Cluster sustaining 6,000 concurrent users without degradation; set up Prometheus, Node Exporter, and Grafana for real-time monitoring; managed VMware vSphere virtualization.

Sep 2020 to Feb 2021

Sep 2017 to Jan 2021

TECHNICAL SKILLS

Backend	NestJS, Node.js, REST API, WebSocket, Java (Spring Boot), Laravel (PHP), Python
Frontend	React.js, Next.js, TypeScript, JavaScript, Material UI, Mantine, Shadcn UI, Redux Toolkit, Zustand
Database	PostgreSQL, MongoDB, ClickHouse, MySQL, Redis
Infrastructure	Docker, Kubernetes (K3s), ArgoCD, Jenkins, Ansible, Git, Google Cloud, Linux
Messaging & Integration	Kafka, ServiceNow API, Jira API, Claude / OpenAI / DeepSeek APIs, LangChain
Security & QA	DevSecOps, SAST, DAST, SCA, Playwright E2E automation, UAT
Monitoring	Prometheus, Grafana, ELK Stack, APM
Mobile	Flutter, Dart (Android & iOS)

EDUCATION

Bachelor's Degree, Information Technology

Universitas Gunadarma, Jakarta · Lab Assistant & Computer Technician at LEPKOM throughout studies

2016 to 2020

CERTIFICATIONS & AWARDS

- Best Consultant Award · PT. Inovasi Informatika Indonesia (Winner 2023 & 2025; Nominee 2024)
- Kubernetes for Beginners · KodeKloud (2026)
- SQL Intermediate · HackerRank (2025)
- Frontend Developer (React) · HackerRank (2024)
- DevSecOps Foundation · DevOps Institute (2023)