

Riki Zulkarnain

Software Engineer & Automation Engineer

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Full-stack developer and automation engineer with ~5 years of experience building scalable internal systems, websites, and automations end-to-end. Ships Next.js and TypeScript on the front, Node.js, Golang and PostgreSQL behind it, and n8n plus AI agents for workflows that quietly save hours every week. Track record delivering secure systems for government agencies, BUMN/BUMD, and private clients.

// TECHNICAL SKILLS

Frontend	TypeScript, JavaScript, React, Next.js, Tailwind CSS, Sass, HTML5
Backend & Data	Node.js, Golang, PHP, PostgreSQL, MySQL, Prisma, Supabase, Firebase, Redis, REST APIs, microservices
Automation & AI	n8n, AI agents & LLM API integration, scheduled data pipelines, Telegram bots
DevOps & Tools	Docker, GitHub Actions, Vercel, Git, Postman, Figma
Also	Flutter & Java Android, MikroTik networking & monitoring, Power BI

// EXPERIENCE

Sintech Solution — Founder & Full-stack Developer 2018 – Present

Freelance · Palembang, Indonesia · On-site/Remote

- Delivered end-to-end web and mobile solutions for government agencies, BUMN/BUMD, and private companies — from scoping and architecture to production deploy and maintenance.
- Built internal systems and client platforms with Next.js, React, Node.js, Golang, and PostgreSQL, deployed with Docker and Vercel.
- Shipped n8n + AI agent automations that replace manual reporting and content workflows, saving clients hours of work every week.
- Translated business requirements into scalable, secure architectures and owned long-term maintainability.

Kementerian Pekerjaan Umum — Office Staff, IT & Public Service Innovation 2023 – Present

Full-time · Palembang, Indonesia · On-site

- Handled public communication and technical documentation for road and bridge infrastructure projects, supporting transparency and public information.
- Developed and rolled out GOMUSI 2.0, an integrated public-service information system that improved request handling and accessibility.
- Provided IT support: network monitoring, internet maintenance, and troubleshooting with MikroTik.

Badan Pendapatan Daerah — Office Staff, Information Systems & Network 2018 – 2023

Contract · Palembang, Indonesia · On-site

- Managed and maintained regional revenue information systems built on PHP and MySQL.
- Diagnosed and resolved application, database, and network issues; coordinated vendors for maintenance and upgrades.
- Ran office network infrastructure on MikroTik for stable, secure connectivity.

Telkomcel — Backend Developer Jun 2019 – Dec 2019

Contract · Timor-Leste · Remote

- Built Node.js backend services for MYTimor, a ride-hailing and on-demand super-app for Timor-Leste.
- Designed the database schema and implemented REST APIs and business logic for high-availability features.
- Optimised relational queries and worked with cross-functional teams on performance and system stability.

Telkomsel — Full-Stack Programmer Jan 2017 – Dec 2017

Contract · Palembang, Indonesia · On-site

- Developed and maintained enterprise applications with PHP, JavaScript, Dart, Flutter, and MySQL.
- Implemented new features to meet business and operational requirements and improved reliability through debugging and optimisation.

// SELECTED PROJECTS

Sinar Mart — Retail Intelligence Report n8n · AI · Telegram

Daily retail reports (sales, stock, orders across three channels) merged automatically by n8n, summarised by AI, and delivered to Telegram every morning — no manual copy-paste.

Hermes — AI Content Automation Agent Hermes Agent · LLM APIs · Telegram

Agent that generates post-ready social content (captions plus carousel images) for multiple topics and channels, triggered straight from a Telegram command.

Pelatihku — Training Platform Next.js · PostgreSQL

Online training platform where users browse programs, enroll, and track their learning progress.

MyTimor — Online Transportation Flutter · PHP · Node.js

Ride-hailing and integrated public-service platform serving Timor-Leste, delivered for a client with Sintech Solution.

FluentPath & Antrian Golang

A structured English-fluency learning app, and a real-time queue-management system that issues, calls, and displays service numbers on a monitor.

// EDUCATION & CERTIFICATIONS

STMIK MDP — Bachelor's Degree in Information Systems Palembang

MikroTik Certified Network Associate (MTCNA)	Pelatihan n8n Advance — Automation
AI Productivity & AI API Integration for Developers	React Dasar Fundamental — BisaReact.dev
Dasar JavaScript untuk ReactJS — BisaReact.dev	Vue.js Fundamentals
Web Programming UNPAS — Course Certificates (2)	UI/UX Designer
Workshop Power BI Data Analyst	Dasar Penggunaan Generative AI
IC3 Digital Literacy — Computing Fundamentals (Certiport)	IC3 Digital Literacy — Key Applications (Certiport)
Pengantar Geographic Information System (GIS)	Programmer PDE — BPPD Kota Palembang