

DARELL RANGGA PUTRA RACHMAN

FULL-STACK SOFTWARE ENGINEER

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PROFESSIONAL SUMMARY

Software Engineer with 1.5+ years of hands-on independent experience designing, developing, and maintaining full-stack web applications, cross-platform mobile solutions, and Machine Learning integrations. Proficient in building high-performance backend logic using **Laravel (PHP), Node.js (Express), and Go (Fiber)**, supported by modern frontend interfaces using **React.js/Next.js and Vue.js 3**. Expert in third-party API integrations (Midtrans SDK), PostgreSQL/MySQL query optimizations, Docker containerization, and AI-assisted development.

TECHNICAL SKILLS

- **Languages:** JavaScript (ES6+), TypeScript, PHP, Go (Golang), Python, HTML5, CSS3.
- **Frontend Development:** React.js, Next.js (v14/v15), Vue.js 3, Inertia.js, Tailwind CSS (v3/v4), PWA, Figma (UI/UX Translation).
- **Backend Development:** PHP (Laravel Framework), Node.js (Express.js), Go (Fiber Framework), RESTful API Design, JWT, WebSockets (Laravel Reverb).
- **Databases:** MySQL, PostgreSQL, Microsoft SQL Server, MongoDB, SQLite.
- **Data & ML Engineering:** Data Analysis (Pandas), Machine Learning (Scikit-Learn, TF-IDF, Logistic Regression), Edge AI (ONNX Runtime Web).
- **Tools & DevOps:** Git/GitHub (Feature Branch Workflow), Docker Containerization, Nginx Web Server, Linux (Ubuntu Server).
- **Testing & Methodologies:** Agile/Scrum, Automated Testing (PHPUnit), Black Box Testing, Code Review, technical documentation.
- **AI-Assisted Tools:** Pair programming and debugging using GitHub Copilot, Claude, and ChatGPT.

WORK EXPERIENCE / INDEPENDENT PROJECTS

Full-Stack Developer | Freelance / Self-Employed

December 2024 – Present

- **[Full-Stack Systems]** Designed and built production-ready responsive web apps and mobile companions from scratch (frontend with React/Vue/Flutter, backend with Laravel/Node.js/Golang) using modular architectures.
- **[APIs & Databases]** Engineered secure RESTful APIs with JWT/Sanctum authentication for real-time data sync across MySQL and PostgreSQL.
- **[Performance Tuning]** Optimized relational database queries using indexing and eager loading, reducing page load latencies by 30%.
- **[DevOps & Server]** Set up containerized deployment environments using Docker and configured Nginx reverse proxies on cloud servers.

SELECTED PROJECTS: SYSTEM BACKEND & FULL-STACK

1. TitikAman — Real-time Flood Evacuation Map (IT Bootcamp Award-Winning)

GitHub: github.com/Rangga11268/titikAman

- **Description:** Bekasi flood management system featuring emergency SOS signal dispatching and interactive evacuation maps.
- Architected the backend API in Laravel 12 and MySQL database schema for regional Bekasi emergency SOS handling.
- Integrated Laravel Reverb (WebSocket) for real-time SOS broadcasts and Leaflet.js for interactive route mapping.
- Wrote **59 automated tests (200 assertions)** using PHPUnit, ensuring a 100% pass rate in Black Box functional testing.

2. SRB Motor Ecosystem (Web Admin & Mobile Companion App)

Web: github.com/Rangga11268/SrbMotorV3 | Mobile: github.com/Rangga11268/srb-motor-mobile

- **Description:** Comprehensive motorcycle dealer credit and management system with web admin panel and Flutter mobile app.
- Developed Flutter mobile application using **Provider** state management for digital catalogs and credit booking workflows.
- Integrated in-app payment using **Midtrans SDK** and callback handling using **Deep Linking** (`srbmotor://`) in Flutter.

3. Tunggal Jaya Transport — Premium Bus Booking System

GitHub: github.com/Rangga11268/tunggal-jaya-transport

- **Description:** Hosted ticket booking platform for a premium transport service with visual seat selection.
- Translated Figma designs into interactive, responsive bus seat charts using **Vue 3 Composition API** and Inertia.js.
- Integrated Midtrans payment gateway and WhatsApp Gateway (Fonnte API) for automated e-ticket delivery.

SELECTED PROJECTS: FRONTEND & HOSTED APPLICATIONS

4. Navara Trans — Premium Bus Company Profile (Vercel Live)

Live Link: navara-trans.vercel.app

- Built a high-end responsive company landing page using **React 18**, **Vite**, and **Tailwind CSS**.
- Implemented glassmorphism layout and staggered grid entrance animations using Framer Motion and Lenis scroll.

5. Janguleee Trans — Premium Bus Company Profile (Vercel Live)

Live Link: janguleee-trans.vercel.app

- Developed an elegant tourism bus charter web profile using **Next.js 15** / **React 18** and Tailwind CSS.
- Implemented fluid page transitions, staggered entrance lists with Framer Motion, and smooth scrolling via Lenis.

6. Have a Treat — Cafe Website & Checkout (Vercel Live)

Live Link: haveatreat.vercel.app

- Built a responsive menu catalog website for a local cafe in Jakarta Garden City using **Next.js 14** and Tailwind CSS.
- Engineered dynamic category filtering, client-side shopping cart state, and **WhatsApp Checkout** order forwarding.

7. PetLoft Web — Pet Care Landing Page & Local SEO (Vercel Live)

Live Link: pet-loft-web.vercel.app

- Built business profile and clinic landing page for PetLoft Summarecon Bekasi using **Vite** and clean vanilla JavaScript.
- Optimized **100% SEO** scores (JSON-LD structured data, metadata schema, Open Graph, and Geo coordinates).

SELECTED PROJECTS: DATA, AI, & MACHINE LEARNING

8. TirtaSense AI — Flood Early Warning System

GitHub: github.com/Rangga11268/TirtaSense

- Trained a flood risk classification model using **Python** (Pandas, Scikit-Learn) and exported it to the ONNX format.
- Integrated the model into **Next.js** frontend using **ONNX Runtime Web** (Edge AI) for zero-latency client-side prediction.
- Configured Service Worker (PWA) to support offline caching of monitoring parameters.

9. FaktaNesia — AI Hoax Detector

GitHub: github.com/Rangga11268/FaktaNesia

- Developed a Flask (Python) RESTful API to serve a text classification model based on **TF-IDF & Logistic Regression**.
- Built **React.js** web interface to submit news article text and render prediction confidence scores in real-time.

AWARDS & ACHIEVEMENTS

1st Place Winner — IT Boot Camp "Futurecode: AI-Driven Software Engineering"

2026

Universitas Bina Sarana Informatika

Bekasi

- Acted as **Project Manager & Lead Developer** for the award-winning "**TitikAman**" system. Managed a team of 11 members, designed real-time WebSocket architecture, and delivered a 100% functional pass rate under PHPUnit tests.

EDUCATION & CERTIFICATIONS

Bachelor of Information Systems | Universitas Bina Sarana Informatika

Sep 2024 – Present

Current GPA: 4.00 / 4.00

Bekasi

- **Relevant:** Data Structures & Algorithms, Software Engineering, Database Systems (MySQL/PostgreSQL).
- **Database Systems Competency Certificate** — Issued by PHPID Community (July 2025).