

# DARELL RANGGA PUTRA RACHMAN

## FULL-STACK SOFTWARE ENGINEER

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### PROFESSIONAL PROFILE

Software Engineer with 1.5+ years of hands-on, independent experience designing, building, and maintaining full-stack web applications, cross-platform mobile systems, and Machine Learning solutions. Proficient in developing high-performance backend logic using **Laravel (PHP), Node.js (Express), and Golang (Fiber)**, backed by modern frontend user interfaces built with **React.js/Next.js and Vue.js 3**. Specialized in integrating third-party APIs (Midtrans SDK), optimizing relational database queries (PostgreSQL, MySQL), Docker containerization, and implementing AI-assisted development workflows.

### 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, 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 Repository: <https://github.com/Rangga11268/titikAman>

- **Tech Stack:** Laravel 12, PHP 8.3, MySQL, Laravel Reverb (WebSockets), Leaflet.js, PHPUnit.
- Designed the backend API with Laravel 12 and MySQL for managing emergency SOS dispatch based on Bekasi geographical areas.
- Integrated Laravel Reverb (WebSockets) for real-time SOS updates and Leaflet.js for mapping evacuation paths.
- Wrote **59 automated tests (200 assertions)** using PHPUnit with a 100% pass rate in Black Box testing.

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

Web Admin (Laravel): <https://github.com/Rangga11268/SrbMotorV3> | Mobile App (Flutter): <https://github.com/Rangga11268/srb-motor-mobile>

- **Tech Stack:** Flutter, Dart, Provider, Laravel 11 API, MySQL, Midtrans SDK.
- Developed the Flutter mobile app using the **Provider** state management pattern for catalogs and financing checkout flows.
- Integrated **Midtrans SDK** for in-app checkout payments and custom callback handling via Flutter **Deep Linking** (`srbmotor://`).

#### 3. Tunggal Jaya Transport — Premium Bus Booking Ecosystem (Web & Mobile)

Web (Laravel/Vue): <https://github.com/Rangga11268/tunggal-jaya-transport> | Mobile (Flutter): [https://github.com/Rangga11268/tunggal\\_jaya\\_mobile](https://github.com/Rangga11268/tunggal_jaya_mobile)

- **Tech Stack:** Flutter, Riverpod, Vue 3, Inertia.js, Laravel API, Pusher WebSocket, Midtrans SDK.
- Developed the mobile app using **Flutter** (Riverpod & Freezed) and interactive web frontend (Vue 3 Composition API).
- Integrated **Midtrans SDK** for secure in-app payments and **Pusher Channels** for real-time seat availability updates.

#### 4. RestoApp — Multi-Tenant POS & Restaurant Management Platform

GitHub Repository: <https://github.com/Rangga11268/RestoApp>

- **Tech Stack:** React 19, TypeScript, Zustand 5, Tailwind CSS v4, Laravel 12 API, MySQL, PHPUnit.
- Built a multi-tenant restaurant POS platform using **Laravel 12 API** and **React 19 + TypeScript**.
- Implemented database-level multi-tenant data isolation using **Laravel Global Scopes** (RestaurantScope) and wrote **63 automated tests** (PHPUnit).

### SELECTED PROJECTS: FRONTEND & HOSTED APPLICATIONS

#### 5. Tinara Trans — Bus Transport Company Profile & Booking Portal (Vercel Live)

Live Link: <https://tinara-trans.vercel.app>

- **Tech Stack:** React 19, Vite, TypeScript, Tailwind CSS, Framer Motion, React Helmet Async.
- Built a modern & fully responsive web interface using **React 19, Vite, TypeScript**, and **Tailwind CSS**.
- Implemented interactive ticket booking features, smooth UI transitions with **Framer Motion**, and full SEO optimization.

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

Live Link: <https://navara-trans.vercel.app>

- **Tech Stack:** React 18, Vite, Tailwind CSS, Framer Motion, Lenis Smooth Scroll.
- Built a responsive luxury transportation interface using **React 18**, **Vite**, and **Tailwind CSS**.
- Implemented luxury glassmorphism visual styling and staggered grid animation transitions via Framer Motion.

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

Live Link: <https://janguleee-trans.vercel.app>

- **Tech Stack:** Next.js 15, React 18, Tailwind CSS, Framer Motion, Lenis Smooth Scroll.
- Built an elegant modern company profile using **Next.js 15 / React 18** and Tailwind CSS with smooth scrolling.

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

Live Link: <https://haveatreat.vercel.app>

- **Tech Stack:** Next.js 14, React 18, Tailwind CSS, WhatsApp Business API integration.
- Built a food & beverage catalog website featuring dynamic category filtering, cart management, and WhatsApp checkout integration.

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

Live Link: <https://pet-loft-web.vercel.app>

- **Tech Stack:** Vite, JavaScript (ES6+), HTML5, CSS3, JSON-LD Structured Data.
- Built a veterinary clinic landing page with **100% Local SEO** optimization (JSON-LD structured data, metadata, Open Graph, Geo tags).

SELECTED PROJECTS: DATA, AI, & MACHINE LEARNING

10. TirtaSense AI — Flood Early Warning System

GitHub Repository: <https://github.com/Rangga11268/TirtaSense>

- **Tech Stack:** Python, Pandas, Scikit-Learn, ONNX Runtime Web, Next.js 14, PWA.
- Trained flood risk classification models in **Python** (Pandas, Scikit-Learn) and exported them to ONNX format.
- Integrated models into Next.js using **ONNX Runtime Web** for zero-latency client-side Edge AI execution.

11. FaktaNesia — AI Hoax Detector

GitHub Repository: <https://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.

12. BansosTarget AI — Poverty Classification for Social Aid

GitHub Repository: <https://github.com/Rangga11268/BansosTarget>

- **Tech Stack:** Python, Scikit-Learn (Random Forest/XGBoost), ONNX Runtime Web, Next.js, Tailwind CSS.
- Trained **Random Forest / XGBoost** classification models on household economic datasets for objective social aid screening.
- Integrated models into a Next.js dashboard using **ONNX Runtime Web** for low-latency (<10ms) local client-side evaluation.

AWARDS & ACHIEVEMENTS

Juara 1 (1st Place Winner) — IT Boot Camp Software Development for Industry

UBSI, 2026

"Futurecode: AI-Driven Software Engineering"

- Acted as **Project Manager & Lead Developer** for the "TitikAman" disaster-mapping project. Led a team of 11 to design a real-time system with WebSockets and Leaflet.js, and presented functional test outputs showing a 100% pass rate.

EDUCATION

B.S. in Information Systems | Universitas Bina Sarana Informatika

September 2024 – Present

- Current GPA: **4.00 / 4.00**
- Relevant Coursework: Software Engineering, Data Structures & Algorithms, Relational Database Systems (MySQL/PostgreSQL).