

Muhammad Rienchy Razak Simatupang

Software Engineer | Full-Stack Developer

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SUMMARY

Fifth-semester Informatics Engineering student (GPA 3.87) targeting an entry-level software engineering role. Works across the stack: React, Next.js, and TypeScript up front, Node.js, Express, Laravel, PostgreSQL, and MySQL behind it. Shipped 5 client websites as a freelancer, two with custom dashboards built from scratch. Open to placement in Jakarta.

EXPERIENCE

Freelance Web Developer

Self-Employed | Remote | Sep 2024 - Present

- Built and shipped 5 company profile websites across the fragrance, food and beverage, digital marketing, and media sectors, using Next.js, JavaScript, Tailwind CSS, PostgreSQL, and WordPress.
- Developed content management dashboards for 2 clients on Next.js REST API routes and PostgreSQL, adding email and password authentication through Supabase Auth so non-technical staff could publish and edit articles without a developer.
- Wrote an SEO scoring algorithm from scratch, no third-party library, scoring articles on keywords, metadata, and length.

PROJECTS

E-Wallet REST API

Node.js, Express, PostgreSQL, Redis, BullMQ, Jest

- Designed a 10-endpoint transfer API that debits the sender inside a row-locked database transaction and queues the recipient credit as a background job, so a process crash mid-transfer cannot lose or duplicate money.
- Made enqueueing and settlement idempotent by transfer id, with three retries on exponential backoff before an automatic refund. Verified by 26 Jest test cases covering 89.9 percent of the money path.

Kyklos - Purchasing and Sales Management System

PHP, Laravel, MySQL

- Modeled access as 18 named permissions composed into 3 roles, declared per route and enforced on both pages and API.
- Integrated the Xendit payment gateway across 3 channels, with webhook verification by constant-time token comparison.

MarkdownPad - Markdown Editor with PDF Export

Next.js, React, TypeScript, Tailwind CSS

- Rendered PDF export through the browser print engine, not a canvas capture, so output stays selectable and searchable.

EDUCATION

Universitas Pancasila | Jakarta Selatan

Bachelor of Informatics Engineering | GPA 3.87 / 4.00 | 2024 - 2028 (Expected)

- Carried a maximum 23-24 credit load from semester 2, including higher-semester courses, with a GPA above 3.80.
- Relevant Coursework: Algorithms and Data Structures, Database Systems, Object-Oriented Programming, Software Engineering, Data Mining, Artificial Intelligence.
- PKM-KC "CulturaNet" 2026: wrote the research proposal and Rp10,000,000 budget with a team of 4 for a CNN machine learning project, scoring 81/100 and placing in the top 5 percent of roughly 40 university submissions.

Maxy Academy | Digital Career Bootcamp - Backend Class, Batch 26

Remote | Jul 2026 - Oct 2026

- Intensive backend training in PHP and Laravel: REST API design, authentication and authorization with JWT, sessions, and API keys, and defense against SQL injection, XSS, and mass assignment.

SKILLS

Programming Languages: JavaScript, TypeScript, PHP, SQL, Python

Frontend: React, Next.js, Tailwind CSS, HTML, CSS

Backend: Node.js, Express, Laravel, REST API, Authentication and Authorization, Background Job Queue (BullMQ)

Databases: PostgreSQL, MySQL, Supabase, Redis

Tools and Deployment: Git, GitHub, Postman, Jest, Vercel, Neon

Languages: Indonesian (Native), English (Professional Working Proficiency)