

Nabila Melsyana

Full-Stack Developer · Jakarta, Indonesia
nabilamelsyana5@gmail.com · +62 888 516 9997 · [LinkedIn](#) · [GitHub](#) · [Portfolio](#)

SUMMARY

Full-Stack Developer who builds web applications end to end — requirements, database design, backend, frontend, testing and release. Seven of my products can be shown publicly and five of those are live and in use; they are the ones I am free to show, not everything I have built.

I start by analysing the problem a product exists to solve, and I work the same way down to the feature list — every feature is there because something in the problem asked for it. That is what the BNSP System Analyst certification covers, and it is the part of the job I am strongest at. My core stack is Laravel and React/Next.js with TypeScript, on MySQL or PostgreSQL, and I have shipped with Python/FastAPI, Fastify, Inertia.js and MongoDB. Several of my products use AI as a working part of the system rather than a feature added on top. At MAXY Academy I help coordinate 16 interns across 5 concurrent projects while continuing to ship my own features.

SKILLS

Languages	PHP · JavaScript · TypeScript · Python · Java · SQL · HTML · CSS
Backend	Laravel · Blade · FastAPI · Fastify · Express.js · Inertia.js · REST API design · Sanctum · JWT · RBAC
Frontend	React · Next.js · Tailwind CSS · shadcn/ui · Radix UI · Alpine.js · Zustand · Zod · React Hook Form · TanStack Query · Framer Motion · Recharts
Databases	MySQL · PostgreSQL · MongoDB · SQLite · Redis
AI & real-time	Google Gemini (text + Vision) · OpenAI · Groq · Claude · RAG retrieval · SSE streaming · Socket.io · WebRTC · Pusher
Integrations	Midtrans · Xendit · Google Calendar & OAuth · WhatsApp API · Chrome Extension (MV3)
Tools	Git · GitHub/GitLab · Docker · Postman · Vite · Puppeteer · Figma · Visual Paradigm
Practice	System analysis · requirements translation · MVC · authentication & authorisation · functional and end-to-end testing (Cypress) · UAT · documentation · Agile/Scrum · mentoring

EXPERIENCE

- Full-Stack Developer — MAXY Academy · Jakarta

Oct 2025 – Present

 - Joined as a Full-Stack Developer Associate through the Kemnaker MagangHub programme and moved onto a full-time one-year contract in May 2026 — same products, same ownership throughout.
 - Build and deliver web applications end to end for internal platforms and confidential client projects, in lean teams where one person carries frontend, backend and database together.
 - Own the full cycle on each product: requirements, solution planning, implementation, testing, refinement and release support.
 - Help coordinate 16 interns across 5 concurrent projects — assigning tasks, reviewing progress, clearing blockers, keeping five delivery timelines aligned at once.
 - Wrote the learning modules the intern cohort trained on and mentor them on coding practice and delivery standards.
- Full-Stack Developer — Ministry of Education, Culture, Research and Technology · MBKM/MSIB programme

Aug – Dec 2024

 - Worked on national education infrastructure with a cross-functional team: the SISTER integrated resource system for higher education, and the re-engineering of SISARPRAS.
 - Implemented and refined CRUD flows inside an existing production codebase, took part in code review, and maintained the change logs that made handover clean.
- Data Management — Telkom Indonesia · Jakarta · Internship programme

Jun – Aug 2024

 - Owned data integrity for a weekly reporting cycle, reconciling disagreements between sources, and documented the data definitions and update procedures so the process did not depend on one person.
- Practicum Assistant, Analysis & Design of Information Systems — Telkom University

Feb – Jun 2024

 - Taught requirements identification and UML modelling (use case, activity, sequence, class, component, deployment) in Visual Paradigm; reviewed student specifications and prepared UAT notes.
- Practicum Assistant, Object-Oriented Programming — Telkom University

Sep – Dec 2023

 - Taught core Java OOP through lab sessions and code review; wrote the practice material the class used.
- UI/UX Designer — Niagahoster × Rakamin Academy · Virtual internship

Aug – Oct 2023

 - Lo-fi to hi-fi prototyping with developer handoff; redesigned the payment flow as the capstone, driven by usability and heuristic review.

SELECTED PROJECTS

Nova AI — Autonomous marketing research agent

MAXY Academy · Solo · 2026 · [Live](#)

Marketing teams lose days to competitor research before a campaign brief can even be written. Nova is a Chrome extension that does that research itself: from one written brief it drives a real browser to read the brand's own pages and its competitors', then returns a market intelligence report and a ready-to-use Excel campaign plan. Work is routed across several AI providers by role, with failover when a key hits its rate limit, and the agent reopens its own research when a question comes back unanswered. Engagement and cadence figures are calculated in code and printed with their formula, so nothing in the report is a model's guess.

Chrome Extension MV3 · JavaScript · Chrome DevTools Protocol · Canvas 2D · Groq · Gemini · Claude · OpenAI

AI Vero — Multi-tenant B2B AI agent platform

MAXY Academy · Solo · 2026 · [Live](#)

Companies want a support agent trained on their own material, and cannot afford one that invents an answer when it does not have one. Vero lets a business upload its documents and web pages and get an agent that answers only from them. I wrote the relevance scoring by hand rather than paying for a vector database, which is what makes refusal possible: the score itself tells the agent when it does not know, and every question it could not answer is captured as the backlog for the next knowledge upload. Low-confidence threads escalate to a human automatically.

Next.js 15 · TypeScript · OpenAI · SQLite · Radix UI · Zod · Puppeteer · Cheerio · SSE streaming

Flowbuddy — Employee productivity & wellbeing platform

MAXY Academy · Team of 2 · 2026 · [Live](#)

Productivity tools measure output and ignore the person producing it, so burnout only becomes visible once someone has already stopped. Flowbuddy tracks both together — tasks tied to KPIs, attendance, and daily mood check-ins — and warns a manager when the trend turns. Employee, manager and HR share one data model while behaving as three different products. Weekly summarisation runs on a schedule rather than on demand, which keeps the token cost predictable, and a companion Chrome extension blocks distracting sites while a focus session is live.

Next.js 16 · React 19 · TypeScript · MySQL · Google Gemini · Pusher · Leaflet · PWA · Chrome Extension

Virtual Intern LMS — Multi-service learning platform

Personal project · Solo · 2026

Running a paid online internship means teaching, meeting, assessing and invoicing, and no single service does all four well. This platform is three services behind one interface: a Laravel core for content and money, a Node/Fastify server for live classes, and an isolated runner that executes and grades student code. Lesson progress is validated server-side against real watch signals, so completion cannot be faked by skipping to the end; a headless client joins each live session and records it, so archiving does not depend on the host remembering; and enrolment coupons are single-use and bound to a student, which closed the obvious sharing path.

Laravel 12 · PostgreSQL · React 18 · Fastify · Socket.io · WebRTC · Puppeteer · Monaco · Xendit

Otopia Auto Care — Car wash operations & POS

Personal project · Solo · 2025 · [Live](#)

A car wash does not sell items off a shelf; it sells services that quietly consume shampoo, wax and cloth, which is why ordinary POS stock control never matches reality. Otopia defines each service by the materials it uses, so ringing up one wash draws them down automatically. Cash is reconciled per shift against an opening and closing count, which makes a shortfall attributable rather than mysterious, and staff commission is computed from the same sale records that feed the daily report, so the two can never disagree.

React 18 · FastAPI (Python) · MongoDB · Tailwind · shadcn/ui · Zod · Recharts · JWT · WhatsApp API

WebOrder Studio — Agency order & payment management

Personal project · Solo · 2025

An agency website is a job that runs for weeks, gets revised, and is paid in stages — the shape that spreadsheets and status-update emails handle worst. WebOrder models the order, the payment and the project as explicit state machines, so a job can never hold a contradictory status and the client can watch it move without asking. One confirmed payment cascades into a PDF invoice, a project record with a deadline derived from the package, and a WhatsApp notice on the channel Indonesian clients actually read.

Laravel 11 · Alpine.js · MySQL 8 · Midtrans · Google Calendar & OAuth · DomPDF · Node.js (whatsapp-web.js)

Maxy Learning — Interactive learning platform

MAXY Academy · Solo · 2025 · [Live](#)

Reading about a skill is not the same as having it, and a multiple-choice quiz cannot tell the difference. Every lesson here is a workspace instead of a chapter: a deliberately broken interface the learner has to repair, with the repair scored; a UML diagram assembled on a canvas and checked for structural correctness rather than just drawn; a Git terminal that parses real commands and redraws the branch tree as the learner works, so branching is understood by watching it move.

Next.js 16 · React 19 · TypeScript · Tailwind CSS v4 · Framer Motion · React Markdown

EDUCATION & CERTIFICATION

Telkom University, Bandung — B.Sc. Information Systems, School of Industrial Engineering

2021 – 2025 · GPA 3.70 / 4.00

BNSP Certified System Analyst — national professional certification

Valid 2025 – 2028

Spoken Indonesian (native) · English (conversational)