

THOMAS ALBERTO

Full-Stack Software Engineer

Putussibau, Kalimantan Barat | tomasalberto527@gmail.com | (+62) 822 5264 8923 | [linkedin.com/in/thomasalberto](https://www.linkedin.com/in/thomasalberto) | github.com/xRiot45 | thomasalbertodev.vercel.app

PROFESSIONAL SUMMARY

Full-Stack Software Engineer specializing in the JavaScript/TypeScript ecosystem (React, Next.js, NestJS, React Native) with a track record of shipping production systems end-to-end. Maintained public-service SKCK Online infrastructure across 14 police locations in West Kalimantan and published an open-source CLI tool with 1,500+ npm downloads. Founder and full-time engineer at RumahKodingku. Information Systems graduate with a 3.86 / 4.00 GPA.

SKILLS

Languages & Frameworks: JavaScript, TypeScript, PHP, React.js, Next.js, React Native, Node.js, Express.js, NestJS, Laravel, Tailwind CSS.

Mobile: React Native, Expo, NativeWind, Expo EAS

Backend & Data: REST API design, MySQL, PostgreSQL, TypeORM, Sequelize ORM, Modular Monolith Architecture

Testing & Quality: Jest, Supertest, Mocha, Chai, ESLint, Prettier, Husky, Commitlint, Playwright

DevOps & Tools: Git, GitHub, Docker, Vercel, Cloudflare R2, CI/CD, Linux, Postman, Figma

Familiar With (learning/exploratory): Golang, Prisma, Rust, Java Spring Boot

Languages: Indonesian (Native), English (Intermediate)

PROFESSIONAL EXPERIENCE

Founder & Software Engineer - RumahKodingku

Apr 2024 - Present

Own Company - Full-time

- Founded and lead engineering at RumahKodingku Studio, shipping production web and mobile applications and software products using Next.js, React Native, TypeScript, NestJS, and Tailwind CSS.
- Built and sell NestJS Modular Monolith Starter Premium, a paid backend boilerplate product providing a production-ready modular-monolith architecture for development teams.
- Developed Tirtavara, an offline-first hydroponic farm management app covering installations, planting cycles, water quality, reminders, pests, harvests, and financial records.
- Built and maintain the RumahKodingku website as the company's product and services platform, implementing responsive UI, SEO, and production deployment.
- Design and implement backend services and APIs using the NestJS framework, following modular architecture and reusable-component principles.
- Manage Git, Docker, Vercel, Cloudflare R2, and CI/CD workflows across development, staging, and production environments.

IT Support System SKCK - PT. Dasa Aprilindo Sentosa

Jul 2025 - Dec 2025

Pontianak, Kalimantan Barat - Contract

- Performed preventive and corrective maintenance of hardware and software for the SKCK Online system at the Provincial Police Headquarters and 13 district police stations across West Kalimantan.
- Managed system installation, configuration, and updates to keep the SKCK issuance process running without interruption.
- Handled remote troubleshooting for 30+ field operators, reducing service downtime caused by technical or human error.
- Conducted technical audits of IT infrastructure across West Kalimantan to standardize device performance against public-service requirements.

Freelance Web Developer - Self Employed

Nov 2023 - Present

Putussibau, Kalimantan Barat - Side work, outside RumahKodingku hours

- Developed web solutions for 5+ clients, including the government sector, improving digital visibility and public access to information.

- Translated client business needs into technical specifications and functional interface designs before development.
- Implemented responsive, mobile-first UI code with a focus on load-time optimization to keep applications lightweight and accessible.
- Ensured application quality through cross-browser testing and debugging across major browsers and device sizes.

Full-Stack Web Developer & UI Designer Intern - PT. Kreasi Putra Hotama

Aug 2024 - Nov 2024

Pontianak, Kalimantan Barat - Mandatory academic internship

- Developed two web applications (a fintech platform and a company-profile site) end-to-end as the sole developer, from system design to deployment.
- Designed system architecture and database schemas (ERD) using Laravel 11 for the backend and React.js (TypeScript) for the frontend.
- Owned the full UI/UX design process in Figma and translated designs directly into functional code.
- Managed the project timeline independently to ensure key features shipped on schedule.

Co-Founder & Lead Creative & UI Designer - Digipages (Startup)

Sep 2022 - Jan 2024

Pontianak, Kalimantan Barat - Part-time, alongside studies

- Led the digital product design cycle from wireframe to high-fidelity prototype, contributing to increased user engagement and retention.
- Translated user pain points into intuitive UI solutions through lightweight UX research, reducing friction in core user flows.
- Collaborated with the developer team to ensure designs were implemented in line with technical and business requirements.

PROJECTS

Tirtavara - Mobile Application

Jul 2025

Hydroponic management app - tirtavara.id

- Developed an offline-first, cross-platform mobile app using React Native, Expo, and TypeScript for hydroponic farming operations.
- Designed modules for planting cycles, water quality monitoring, reminders, pest management, harvest tracking, and financial management.
- Built reusable UI components and responsive layouts with NativeWind for a consistent cross-device experience.
- Implemented local data management and workflows to support usage without continuous internet connectivity.
- Managed production builds and app distribution using Expo EAS.

RasaBorneo - FullStack Web Application

Aug 2025

Multi-merchant food ordering platform (final project)

- Built an enterprise-scale food delivery platform connecting four user roles: Admin, Merchant, Courier, and Customer.
- Integrated Midtrans payment gateway, a withdrawal-code fund withdrawal system, CSV merchant financial reports, and promotional coupon management.
- Built a merchant dashboard for independent menu management, operating hours, and revenue analysis.

Express JS CLI - Open Source Project

Feb 2025

1,500+ downloads on npm - express-js-cli.vercel.app

- Designed a Node.js CLI to accelerate RESTful API project initialization, automating folder-structure creation to cut initial setup time.
- Built dynamic project scaffolding covering language (JavaScript/TypeScript), database (MySQL/PostgreSQL), and testing framework (Jest/Supertest or Mocha/Chai) selection.
- Standardized code quality and workflow with ESLint, Prettier, Husky, and Commitlint for consistent development from day one.
- Configured Sequelize ORM integration and import aliasing to produce modular, industry-aligned boilerplate code.
- Released as an open-source tool that has surpassed 1,500 npm downloads, supporting other backend developers.

GoParkir - Backend Application & UI Design

Nov 2024

Digital parking management system - 1st Place, Pontianak Hackathon x 1000 Digital Startups

- Built an MVP city-parking management app for a 48-hour hackathon as both Backend Developer and UI Designer.
- Designed a backend API for real-time parking data handling and an intuitive user interface under sprint conditions.

EDUCATION

Diploma (D3), Information Systems - Universitas Bina Sarana Informatika

Sep 2022 - Aug 2025

Pontianak, Kalimantan Barat - GPA 3.86 / 4.00

Cybersecurity Independent Study - Celerates School

Feb 2024 - Jul 2024

Pontianak, Kalimantan Barat - Achievement score 89.67 / 100

CERTIFICATIONS

- Certified Program Analyst - Badan Nasional Sertifikasi Profesi (BNSP), 2025 - 2028
- Certified Programmer - Badan Nasional Sertifikasi Profesi (BNSP), 2024 - 2027
- Certified Junior Office Operator - Badan Nasional Sertifikasi Profesi (BNSP), 2023 - 2026