

MUHAMMAD GALUH GUMELAR

Software Engineer | Full-Stack | Backend Development
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PROFESSIONAL SUMMARY

Software Engineering Technology graduate from IPB University who enjoys turning messy business requirements into clean, working software. Comfortable across the full stack but strongest on the backend — designing APIs, modeling data, and wiring up the logic that keeps a system predictable under load. Has shipped for enterprise, agency, and community clients, learning to balance speed with maintainability. Works day-to-day in TypeScript, Angular, Next.js, Express.js, FastAPI, and Golang.

PROFESSIONAL EXPERIENCE

Roxy Group (Apotek Roxy)

Software Engineer · Contract

Mar 2026 – Present

Jakarta Pusat, Indonesia

- Developing a comprehensive Human Capital Management System (HCMS) supporting multi-branch HR operations, covering employee management, attendance, leave, and complex organizational structures across multiple company branches.
- Building an advanced payroll engine that handles multi-branch salary calculations, tax deductions, allowances, and automated payslip generation with configurable business rules.
- Integrating AI-powered features to automate HR workflows and support data-driven decision making across the human capital domain.
- Developing an ERP Supply Chain system to streamline procurement, inventory, and distribution processes across pharmacy operations.
- Designing scalable REST APIs and complex database schemas to ensure seamless integration between the HCMS and ERP systems across all branches.

PT Amerta Indah Otsuka

Web Developer · Internship

Jan 2026 – Feb 2026

Sukabumi, Indonesia

- Developed and maintained multiple web applications for product quality monitoring and defect tracking, enabling real-time visibility into production quality across the supply chain.
- Implemented multi-level approval workflows and a content management system that streamlined internal processes and improved operational efficiency and data accuracy across departments.
- Built a customer-to-company helpdesk system and contributed to scalable backend architecture, delivering features on schedule in a fast-paced production environment.

PT Kuantum Solusi Teknologi — Bogor, Indonesia

Software Engineer Intern (Backend Focus), Internship

Jul 2025 – Dec 2025

Bogor, Indonesia

- Developed a large-scale budgeting system with complex business logic, multi-level approval flows, and well-structured REST APIs.
- Optimized backend performance and automated processes including budget calculation, multi-layer data validation, and system integrations, significantly improving system efficiency.
- Designed maintainable backend architecture supporting multiple internal systems, delivering critical tasks on time through strong debugging and problem-solving skills.

PT Buanakonstruksi — Jakarta, Indonesia

Web Developer · Contract

Sep 2024 – Apr 2025

Jakarta, Indonesia

- Developed and maintained the company website, ensuring responsive design and optimal functionality across devices.
- Integrated internal systems including booking forms and project databases to enhance operational efficiency.
- Performed SEO and site-speed optimization to improve search visibility and user experience.

EDUCATION

IPB University (Institut Pertanian Bogor) - Bogor, Indonesia

Bachelor of Applied Science, Software Engineering Technology GPA:

3.52 / 4.00

Aug 2022 – 2026

Bogor, Indonesia

SMK Negeri 1 Banjar - Banjar, Indonesia

Vocational Diploma, Multimedia

Jul 2019 – May 2022

Banjar Patroman, Indonesia

PROJECTS

- **Upsite** — Fullstack Developer (2025). Online platform for a web-development agency featuring service listings, client order management, and a responsive portfolio display.
- **Inventory Management System, CV Cahaya Baru** — Fullstack Developer (2024). Designed relational MySQL schemas to track stock and supplier data; built automated reporting and transaction logic to reduce manual errors.
- **StudyLens** — Fullstack Developer (2025). Productivity platform for educational tools built on a modern JavaScript stack with secure authentication.
- **PT Kastara Teknologi Internasional** — Web Developer (2025). Delivered web solutions focused on performance optimization and system reliability.
- **Additional Work** (2023–2024) — Fullstack: Harris Hotel, FreshCatch, Comotlangsung. UI/UX Design: Serenify, EduNet, Fleksa.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, PHP, Python, Golang, SQL, Dart

Backend: Node.js, Express.js, Fastify, FastAPI, Laravel, Nest.js

Frontend: Angular, Next.js, React.js, Tailwind CSS, Bootstrap, Vue.js, Nuxt.js

Databases: MySQL, PostgreSQL, MongoDB

Tools: Git, GitLab, Postman, Docker, VS Code, Claude

Soft Skills: Effective Communication, Teamwork, Problem Solving, Analytical Thinking, Time Management

LEADERSHIP & ORGANIZATIONAL EXPERIENCE

Himavo Micro IT Community - ITFest, Bogor, Indonesia

May 2024 – Aug 2024

Vice Head of Logistics

- Coordinated logistics and managed a volunteer team for ITFest, reducing event setup time by 30%.
- Served as liaison between the logistics division and external vendors to ensure smooth operations.

Himavo Micro IT Community - Company Visit, Bogor, Indonesia

Apr 2024 – Aug 2024

Staff, Consumption Division

- Planned and managed food & beverage arrangements for corporate visits, earning positive participant feedback.

Osis SMKN 1 Banjar - Banjar, Indonesia

Sep 2020 – Sep 2021

Head of IT Division

- Produced event documentation, designed posters, and created videos to capture key school moments.

CERTIFICATIONS & ACHIEVEMENTS

- Certified Software Engineer — BNSP (Badan Nasional Sertifikasi Profesi)
- Responsive Web Design — freeCodeCamp
- JavaScript Algorithms and Data Structures — freeCodeCamp
- 3rd Place — UI/UX Competition, Festech 2023
- 2nd Runner-Up — West Java Provincial Innovation Competition 2023
- 1st Place — MicroIT Cabinet Logo Competition 2024
- 2nd Place — Business Plan Competition (Halal and Digital Trends)
- Complete UI Designer Bootcamp (Visual Design, Prototyping, Usability Testing) — BuildWithAngga