

Gilang Gunawan

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PROFESSIONAL EXPERIENCE

Ministry of Agriculture of Indonesia

Jakarta, Indonesia

Software Engineer / IT Consultant

Feb 2022 - Present

World Bank & IFAD-funded agricultural development programs (US\$238M+ combined funding).

- Designed and delivered **5 enterprise applications** with **50+ modules**, supporting HQ, 10 provincial offices, 300+ operational users, and **10K+ beneficiary accounts** across World Bank & IFAD programs.
- Built integrated financial reporting platforms, reducing World Bank IFR reporting from **1 week to under 5 minutes** and IFAD financial consolidation from **30 days to 1 day**.
- Optimized enterprise databases supporting **200K+ beneficiaries** and **31K+ financial transactions**, reducing report execution from minutes to seconds.
- Integrated **4M+ farmer records** with the Ministry of Finance (SIKP), enabling nationwide agricultural financing analysis and audit processes.
- Resolved production scalability bottlenecks for a high-traffic ministry platform, increasing capacity from **~1K to 30K+ concurrent users** through Apache load balancing, dedicated database architecture, and Cloudflare WAF/DDoS protection.
- Developed **executive KPI dashboards** consolidating financial, operational, and beneficiary data into real-time insights for project directors, auditors, and government stakeholders.
- Owned **end-to-end software delivery**, from solution architecture and full-stack development to deployment, production operations, and long-term maintenance.

PT Tower Bersama Infrastructure Tbk

Jakarta, Indonesia

Software QA Engineer

Oct 2020 – Feb 2022

One of Indonesia's largest independent telecom tower providers (24K+ sites).

- Validated **50+ enterprise modules** across ERP, project management, and marketing systems through **hundreds of test cases**, SIT, and UAT, collaborating with cross-functional engineering and business teams.
- Designed and delivered an **internal QA management platform**, replacing spreadsheet-based workflows with centralized testing documentation, manual book management, and developer KPI tracking while collaborating with a **junior software engineer and an intern**.
- Contributed to the Platinum Award-winning SADAKO initiative, eliminating **requirement-stage project delays (22 to 0 cases)** through user story standardization and engineering knowledge management.

EDUCATION

IPB University

Bogor, Indonesia

Bachelor of Computer Science

2016 – 2020

PROJECT & ACHIEVEMENTS

- Nemuhunian — AI-Powered Property Platform** Built an AI-powered property platform using Go and Next.js, designing scalable backend APIs, AI-powered search, SEO automation, and CI/CD workflows.
- Platinum Award — TKMPN 2021** Recognized for contributing to the award-winning SADAKO (Systematic Design & Knowledge Organizer) engineering platform.
- Top 10 National Finalist — GEMASTIK XI 2018** Developed Eventarich, an ICT platform for event organizers.

TECHNICAL SKILLS

Go • PHP • TypeScript • JavaScript • Laravel • Next.js • React • PostgreSQL • MySQL • Redis • Docker • GitHub Actions • Cloudflare • System Design • Backend Architecture • AI Integration • SEO