ACHMADYA RIDWAN ILYAWAN

Software Engineer | Backend Developer | Full-Stack Developer

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PROFESSIONAL SUMMARY

Software engineer with 3+ years of experience building backend services, full-stack web applications, and internal tools for manufacturing and business operations. Works primarily with TypeScript, Node.js, PHP, RDBMS, REST APIs, and system integration tools.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, PHP, Java, C++, Python
Backend & APIs: Express, NestJS, Laravel, RabbitMQ, Model Context Protocol (MCP)
Frontend: React, Next.js, Electron, Tailwind CSS
Data: PostgreSQL, MySQL, SQL Server, SQLite

PROFESSIONAL EXPERIENCE

Knitto Group | Backend Developer - Contract | Oct 2024 - Present

- Develop and maintain backend services for internal manufacturing applications, including color-management integrations with Dosorama and X-Rite, Manufacturing Execution System (MES), and master-data workflows.
- Research and implement automation and system integrations that support factory operations.
- Build reusable backend service packages for shared capabilities across internal applications.

Satuan Pengawas Internal, Politeknik Negeri Bandung | Full-Stack Developer - Freelance | Jan 2024 - Jun 2024

- Developed a Laravel web application for identifying, assessing, and managing institutional risks.
- Implemented web interfaces and MySQL-backed workflows using PHP, Laravel, and Bootstrap.
- Supported the full delivery lifecycle from design through deployment.

PT Pilar Timur Teknologi (Digital Oasis) | Full-Stack Developer - Internship | Jun 2023 - Sep 2023

- Developed APIs, desktop interfaces, database schemas, stored procedures, and Selenium-based bank transaction scraping for Mega Master Engine, an H2H credit server with PPOB functionality.
- Refactored Java, TypeScript, React, and Electron code within the existing credit-server application.
- Built and updated API, UI, and database workflows for Dios Employee, an employee-management system using Laravel and MySQL.

SELECTED PROJECTS

MCP Query | Personal Project | Apr 2026 - Present | Repository

- Built a TypeScript suite of MCP servers that connects AI clients to Excel, MySQL, PostgreSQL, SQL Server, and SQLite through published npm packages.
- Designed a shared core handler for validation, function execution, result normalization, and structured error handling, while keeping protocol concerns separate from database-specific adapters.

Mandor Plate | Personal Project | Jun 2026 - Present | Repository

- Built a reusable full-stack dashboard and SaaS foundation with NestJS, Next.js, PostgreSQL, TypeScript, and Turborepo.
- Organized the frontend, backend, shared Zod contracts, migrations, and tests in one monorepo designed for reusable product foundations and AI-assisted development.
- Included JWT authentication, database migrations and seed data, Docker Compose local infrastructure, and automated lint, type-check, and test quality gates.
- Verified unit and full-stack flows with Jest and Playwright.

EDUCATION

Politeknik Negeri Bandung | Associate Degree in Informatics Engineering | 2021 - Aug 2024
West Bandung, West Java, Indonesia

SELECTED CERTIFICATIONS

Knitto x DQLab - Build GenAI Chatbot | Boot.dev - Python, RAG, and Data Structures | Dicoding - SOLID, JavaScript, Back-End, and AWS Cloud