# GERRANT ENRIQO HIYA, S.KOM.

## IT Developer · IT Consultant

? Jakarta, Indonesia | ?? g@ghiya.my.id | ? +62 851-8802-4225 | ? ghiya.my.id

## PROFESSIONAL SUMMARY

Software Developer with a decade of programming experience and 8 years building real-world systems. Experienced in PHP, Laravel, Next.js, and Flutter, delivering secure, scalable solutions across education, legal, hospitality, and enterprise sectors. Information Systems graduate (GPA 3.88) with two journal publications.

## EDUCATION

### Universitas Tarumanagara

2022 – 2025

**Bachelor of Computer Science (S.Kom.) — Information System**

Focused on Information Systems, Software Engineering, Database Management, and applied research in Recommendation Systems and IoT. Completed undergraduate thesis on IoT telematics systems, served as Assistant Lecturer across core computer science courses, and worked as Research Assistant.

## PROFESSIONAL EXPERIENCE

### IT Staff Tarumanagara Enterprise

Feb 2026 – Present

**Tarumanagara Foundation (Full-time)**

Developed and maintained mobile applications using Laravel and Flutter, including database design, feature development, and backend integration to ensure scalable, efficient, and reliable application performance.

- Built UntarX, a Flutter + Laravel mobile app integrating 10+ units, used by 1000+ students and staff.
- Designed an encrypted patient-record system with access controls blocking direct DB reads, including by developers.

### Information Technology Developer

Oct 2025 – Present

**S&P Law Office (Contract)**

Develop and manage web application based on CodeIgniter and Laravel Framework.

- Develop and maintain 5+ internal apps (document management, webinars, recruitments, appointments management, etc.) on CodeIgniter

### Research Assistant - Recommendation System

Jul 2025 – Dec 2025

**Universitas Tarumanagara (Research / Academic)**

Conducted research and developed an e-commerce recommendation system based on the TF-IDF algorithm.

- Developed a web-based e-commerce platform featuring a TF-IDF-based product recommendation system, search functionality, and best-selling product features to enhance product discovery, user experience, and sales insights.
- Built backend services using PHP and Laravel, with MySQL database management to support product catalogs, user interactions, recommendation algorithms, and efficient data retrieval.
- Handled 2000+ products with 10,000+ reviews to tune TF-IDF Recommendation relevance.

### IT & MIS Internship

Jan 2025 – Jun 2025

**PT Karabha Digdaya (Internship)**

Assisted in Management Information Systems (MIS) operations, internal enterprise technical support, and infrastructure maintenance.

- Developed a restaurant management system with automated order routing to streamline operations between payment, kitchen, bar, and serving teams, ensuring orders are processed immediately after payment confirmation.
- Implemented real-time performance tracking and management dashboards to monitor preparation and serving times, evaluate
- employee performance, and provide top management with actionable operational insights.

### Web Developer

Sep 2024 – Dec 2024

**JIAC (Jakarta International Arbitration Centre) (Contract)**

Developed and maintained institutional web systems for Jakarta International Arbitration Centre.

- Developed and maintained the official Jakarta International Arbitration Centre (JIAC) website, implementing content management features for institutional information, news, organizational profiles, and arbitrator directories to enhance digital presence and information accessibility.
- Implemented an interactive arbitration fee calculator and structured website navigation to simplify access to arbitration services,
- provide cost estimates based on claim amounts, and improve the overall user experience for legal professionals and businesses.

### Web Developer

Jun 2024 – Jan 2025

**Universitas Tarumanagara (Contract)**

This system is designed to streamline the assessment and administrative processes of thesis management at the Faculty of Information Technology, Untar.

- Developed a web-based thesis administration system to manage the complete academic workflow, including student registration, supervision tracking, proposal submissions, thesis evaluations, final defense, and thesis extension processes for students who do not pass.
- Implemented supervisor and faculty management features for progress monitoring, assessment records, supervision history, and centralized student archives, enabling efficient academic administration and comprehensive tracking of active and completed thesis candidates.

### Assistant Lecturer

Jan 2024 – Dec 2024

**Universitas Tarumanagara (Academic)**

Conducting practical sessions for over 100 students in the courses Database Design & Management, Oracle Database Administrator, Algorithms and Programming, Analysis & Design of Information Systems, and Web Development.

- Conducted practical laboratory sessions for over 100 students across six IT courses, covering database management, programming, information systems analysis and design, object-oriented programming, and web development.
- Guided students through hands-on assignments, database implementation, software development, and technical troubleshooting, bridging theoretical concepts with practical application while strengthening their programming and problem-solving skills.

## TECHNICAL EXPERTISE

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|---|---|
| **Applied Research & IoT:** | GPS Telematics (NEO-8M), Recommendation Systems (TF-IDF), Internet of Things (IoT), SIM800L / Cellular IoT, ESP32 & Microcontroller Firmware |
| **Software & Web Development:** | Software as a Service (SaaS), Laravel Framework, Flutter & Dart, PHP, CodeIgniter Framework, RESTful APIs, Tailwind CSS & Blade |
| **Database & Backend:** | SQL (Advanced / Intermediate / Basic), MySQL Database, Oracle Database & Administration, Database Design & Normalization, Query Optimization & Indexing |
| **IT Support & Operations:** | Ticketing Systems, Management Information Systems (MIS), Analysis & Design of Information Systems, Linux & Server Administration |
| **Multimedia & Broadcasting:** | Sony NXCam Broadcast Camera |
| **Languages:** | Indonesian (Native / Bilingual), English (Professional Working) |

## FEATURED PROJECTS

### **UntarX Application** (Software)

UntarX is an integrated digital platform developed by Universitas Tarumanagara to provide convenient access to various campus services in one application. It connects students, staff, tenants, and the university community with features such as events, news, promotions, tenant services, residence booking, registration, and appointment management.

**Stack:** Flutter, Dart, Laravel, PHP, MySQL, REST API

### **HR System** (Software)

Full HR System for Company, payroll system, multi-role leveling system, absence, and others are included.

**Stack:** Laravel, PHP, MySQL, Tailwind CSS, Blade Engine

### **IT Helpdesk & Ticketing Platform** (Software)

IT Helpdesk by Ghiya is a multi-company SaaS platform for managing and centralizing IT support operations. It provides a complete ticketing workflow, integrated ticket chat, assignment and progress tracking, notifications, analytics, reporting, audit logs, role-based access control, and organizational management. The platform is designed to help organizations improve IT support efficiency, transparency, and response management.

**Stack:** Laravel, MySQL, Blade, Tailwind CSS, SMTP Notifications

### **Web & IoT-Based Logistics Fleet Tracking Application** (IoT)

Real-time GPS telematics and vehicle fleet tracking solution with hardware sensor integration, cellular data transmission, and live mapping dashboard.

**Stack:** ESP32, C/C++, GPS NEO-6M, SIM800L GSM, Laravel, MySQL, Leaflet.js, IoT Telematics

### **E-Commerce with TF-IDF Recommendation System** (Software)

E-commerce platform integrating content-based recommendation algorithms (TF-IDF) for personalized product discovery, search, and sales insights.

**Stack:** Laravel, PHP, MySQL, TF-IDF Algorithm, Tailwind CSS, REST API

## CERTIFICATIONS & PUBLICATIONS

**Claude Academy: Deploying Claude Enterprise with Confidence: The five decisions that shape your rollout** — **Anthropic** Sep 2026

**Claude Academy: AI Fluency for Builders** — **Anthropic** Sep 2026

**Claude Academy: Introduction to Model Context Protocol** — **Anthropic** Sep 2026

**Claude Academy: Model Context Protocol: Advanced Topics** — **Anthropic** Sep 2026

**Claude Academy: Claude Code 101** — **Anthropic** Sep 2026

**Claude Academy: Claude Code in Action** — **Anthropic** Sep 2026

**Assistant Lecturer** — **Faculty of Information Technology, Universitas Tarumanagara** Dec 2024

**Instruktur Lab Semester Ganjil** — **Faculty of Information Technology, Universitas Tarumanagara** Jul 2024

**SQL (Advanced) Certificate** — **HackerRank** May 2024

**SQL (Intermediate) Certificate** — **HackerRank** Mar 2024

**Perancangan Aplikasi Pelacakan Armada Logistik Berbasis Web dan GPS** — Jurnal Ilmu Komputer dan Sistem Informasi 2026

**Design of A Web and Internet of Things-Based Logistics Fleet Tracking Application** — Internet of Things and Artificial Intelligence Journal 2025