

GERRANT ENRIQO HIYA, S.KOM.

IT Developer · IT Consultant

📍 Jakarta, Indonesia | ✉ g@ghiya.my.id | ☎ +62 851-8802-4225 | 🌐 ghiya.my.id

PROFESSIONAL SUMMARY

Bachelor of Computer Science (S.Kom.) graduate from Universitas Tarumanagara with experience as a Research Assistant focusing on recommendation systems, Full-Stack Web Developer at FTI Untar and JIAC, and IT Consultant across Laravel, Flutter, and IoT systems.

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.

- Developed and maintained mobile applications using Laravel and Flutter.
- Designed database schemas and optimized backend performance.
- Implemented backend API integrations and feature development for scalable enterprise applications.

Information Technology Developer

Oct 2025 – Present

S&P Law Office (Contract)

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

- Develop and manage web applications based on CodeIgniter and Laravel Framework.
- Maintain law office case management systems, database backups, and security updates.
- Implement feature enhancements and internal operational workflows for legal practitioners.

Multimedia

Nov 2023 – Present

GBI HMJ (Part-time / Volunteer)

Operating the Sony NXCam camera, Mini Pearl 512A lighting mixer, and Avolites Pearl 2008.

- Operating Sony NXCam broadcast camera for live worship services and media capture.
- Managing stage and ambient lighting using Mini Pearl 512A lighting mixer and Avolites Pearl 2008 console.
- Coordinating live multimedia workflow and video mixing during scheduled church services.

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.

- Assisted in Management Information System (MIS) operations, data reporting, and analysis.
- Provided internal IT technical support, hardware/software troubleshooting, and network maintenance.
- Collaborated on database administration, data backups, and internal process digitization.

Web Developer

Sep 2024 – Oct 2025

JIAAC (Jakarta International Arbitration Centre) (Contract)

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

- Developed, maintained, and enhanced official institutional web platforms for JIAAC.
- Implemented secure data workflows, case management modules, and responsive UI components.
- Conducted regular server updates, performance tuning, and database integrity maintenance.

Research Assistant - Recommendation System

Aug 2024 – Jan 2026

Universitas Tarumanagara (Research / Academic)

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

- Developed an e-commerce website implementing a recommendation system based on the TF-IDF algorithm to enhance product discovery.
- Built user search functionality and best-selling product features to improve user experience and sales insights.
- Utilized PHP (Laravel framework) for backend development and MySQL for database management.

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.

- Designed and developed the thesis management web application for Faculty of Information Technology, Untar.
- Streamlined thesis proposal submission, advisor assignment, defense scheduling, and grading.
- Engineered role-based access control (RBAC) for students, lecturers, and academic administration.

Practical Module Editor

May 2024 – Jul 2024

Universitas Tarumanagara (Academic)

Designing and developing practical learning modules for the Analysis and Design of Information Systems course.

- Designed and developed practical learning modules and lab manuals for the Analysis and Design of Information Systems course.
- Formulated real-world system modeling case studies, UML diagramming tasks, and database requirements specifications.

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 lab sessions for over 100 students across Database Design & Management, Oracle Database Administrator, Algorithms and Programming, Analysis & Design of Information Systems, and Web Development.
- Guided students through complex SQL query writing, database normalization, algorithms, and full-stack development exercises.
- Evaluated lab assignments, projects, and practical examinations with actionable feedback.

Multimedia

Jan 2018 – Dec 2019

Gereja Tiberias Indonesia (Volunteer)

Operated the EasyWorship 2009 software application for worship services in church.

- Operated EasyWorship 2009 software application for live church worship services and congregation projections.
- Prepared and scheduled visual media assets, sermon slides, and liturgical presentations.

TECHNICAL EXPERTISE

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

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

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

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

Jakarta International Arbitration Centre (JIAC) Web Platform (Software)

Official web platform and institutional management portal for Jakarta International Arbitration Centre (JIAC).

Stack: Laravel, PHP, MySQL, Tailwind CSS, JavaScript

CERTIFICATIONS & PUBLICATIONS

Perancangan Aplikasi Pelacakan Armada Logistik Berbasis Web dan GPS — 2026

Jurnal Ilmu Komputer dan Sistem Informasi

Design of A Web and Internet of Things-Based Logistics Fleet Tracking 2025

Application — Internet of Things and Artificial Intelligence Journal