



MUHAMMAD IZZAT HAQIMI BIN ROSLAN

Full-Stack Software Engineer | Documentation and System Tester

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PROFESSIONAL SUMMARY

Results-oriented Full-Stack Software Engineer with **2+ years of hands-on experience** developing enterprise-grade web applications, ERP systems, and research platforms. Specialized in **Laravel, PHP, JavaScript**, and modern front-end frameworks including Tailwind CSS and Flowbite. Proven ability to **deliver award-winning solutions** (Gold Medal winner at MPI2025) by transforming complex business requirements into scalable, user-centric software. Experienced in full software development lifecycle (SDLC), **agile methodologies**, comprehensive testing strategies, and cross-functional team collaboration. Adept at **optimizing database performance**, implementing responsive UI/UX designs, and maintaining enterprise web platforms. Seeking opportunities to contribute technical expertise and innovative problem-solving skills to dynamic software development teams in Southeast Asia.

PROFESSIONAL EXPERIENCE

Software Engineer & Research Assistant

Sea Turtle Research Unit (SEATRU), Universiti Malaysia Terengganu / March 2025 - Present

Key Achievements:

- **Architected ROMAns ERP system** using Laravel and MySQL, streamlining manufacturing operations for the keropok lekor industry — **awarded Gold Medal** at Minggu Penyelidikan dan Inovasi (MPI2025, UniSZA)
- **Engineered TIDeS** (Turtle Imprinting Database System) with real-time data processing capabilities, supporting environmental conservation research — **Bronze Medal** recipient at MPI2025
- **Reduced system bugs** through comprehensive User Acceptance Testing (UAT), establishing quality benchmarks and test documentation protocols for ROMAns ERP
- Designed research poster presentations showcasing technical architecture, database schema design, and measurable business impact of innovative ERP solutions

Technical Responsibilities:

- **Maintained and enhanced** INOS Website (UMT) serving 5,000+ users, implementing feature updates, performance optimizations, and security patches using PHP and MySQL
- **Collaborated with Dr. Faizah Aplop** on multiple research initiatives, translating academic requirements into production-ready web applications with RESTful API integration
- Implemented **Git version control workflows** and CI/CD best practices, improving code quality and reducing deployment errors.
- Optimized database queries and indexing strategies, **improving system response time** and enhancing user experience for research data management platforms
- Developed comprehensive technical documentation including API specifications, system architecture diagrams, and user manuals for research software

Software Engineering Intern

MySoftcare Solution Sdn. Bhd. / August 2024 - January 2025 (6 months)

- **Developed full-stack web applications** using Laravel framework, implementing secure CRUD operations, JWT authentication, and role-based access control (RBAC) systems
- Designed and delivered **mobile-first responsive interfaces** using Tailwind CSS and Flowbite components, achieving cross-browser compatibility and improving user engagement

- Architected **normalized database schemas** with optimized relationships and indexing, reducing query execution time by and improving data management efficiency
- Created user-centric technical documentation and video tutorials, **reducing client onboarding time** and minimizing support tickets
- **Participated in agile sprints** (daily standups, sprint planning, retrospectives), conducted peer code reviews, and collaborated using Git/GitHub with feature branch workflow

Transportation Service Coordinator

Sam Car Rental | June 2021 - August 2023

- **Coordinated transportation logistics** for 50+ students daily, maintaining on-time service record through strategic route optimization and time management
- Demonstrated strong customer service and communication skills, achieving 4.8/5.0 satisfaction rating across diverse clientele

EDUCATION

Bachelor of Computer Science (Software Engineering) with Honours

Universiti Malaysia Terengganu | 2021 - 2024

- **CGPA: 3.38/4.00** | Grade A in Programming, Discrete Structure, and Computer Architecture and Organization
- **Dean's List Award:** Semester 1 and Semester 5 | **Bronze Medal:** 1+1 International Innovation Competition 2023

STEM Foundation Programme

Universiti Malaysia Terengganu | 2020 - 2021

- **CGPA: 3.98/4.00** | Band 4.0 in MUET | **Dean's List Award:** All Semesters

TECHNICAL SKILLS

Front-End Development

- **Languages & Frameworks:** HTML5, CSS3, JavaScript (ES6+), Tailwind CSS, Flowbite, Bootstrap
- **UI/UX Design:** Responsive Design, Mobile-First Development, Cross-Browser Compatibility, Accessibility (WCAG)

Back-End Development

- **Languages:** PHP, Java, Python, JavaScript (Node.js basics)
- **Frameworks & Technologies:** Laravel 8/9/10, RESTful API Development, MVC Architecture, JWT Authentication
- **Core Competencies:** CRUD Operations, Session Management, Middleware, Route Protection, Form Validation

Database & Data Management

- **Database Systems:** MySQL, MariaDB, PHPMyAdmin
- **Skills:** Database Design & Normalization, Query Optimization, Indexing, Stored Procedures, Data Migration, Eloquent ORM

DevOps, Tools & Methodologies

- **Version Control:** Git, GitHub, GitLab, Feature Branch Workflow, Pull Requests, Code Reviews
- **Development Tools:** VS Code, Composer, NPM, Postman (API Testing), Browser DevTools
- **Testing & QA:** User Acceptance Testing (UAT), System Testing, Test Case Documentation, Bug Tracking, Quality Assurance
- **Methodologies:** Agile/Scrum, Software Development Life Cycle (SDLC), Code Review, Documentation, CI/CD Basics
- **Additional:** ERP Systems Development, CMS Platforms, IoT Development, Research Software Development

KEY PROJECTS & ACHIEVEMENTS

ROMAns ERP System | Gold Medal Winner

Laravel, PHP, MySQL, Tailwind CSS | Minggu Penyelidikan dan Inovasi (MPI2025), UniSZA

- **Designed and built enterprise-grade ERP solution** for keropok lekor manufacturing industry, automating inventory management, production tracking, and financial reporting
- Implemented real-time dashboard with data visualization using Chart.js, **improving operational decision-making**
- Conducted comprehensive UAT with 15+ stakeholders, achieving user satisfaction and system reliability metrics

TIDeS (Turtle Imprinting Database System) | Bronze Medal

CodeIgniter, PHP, MySQL | Environmental Research & Conservation Platform

- Co-developed research database system for sea turtle conservation, enabling biologists to track and analyze turtle imprinting data across multiple research sites

SailCare - Smart Boat Maintenance & Monitoring System

Java JSP, Servlet, / OceanLink Sailing Club

- Built comprehensive web platform for boat fleet management with automated maintenance scheduling, real-time monitoring, and detailed service history tracking
- **Reduced maintenance costs** through predictive scheduling and centralized documentation system

UniStore E-Commerce Platform

Java, HTML, CSS, JavaScript, MySQL | Academic Project

- Developed feature-rich online shopping platform with product catalog, shopping cart, secure payment integration, and admin dashboard
- Implemented secure user authentication, order management system, and sales analytics with data export functionality

CERTIFICATIONS & AWARDS

- **Gold Medal** - ROMAns ERP System, Minggu Penyelidikan dan Inovasi (MPI2025), UniSZA, May 2025
- **Bronze Medal** - TIDeS Database System, Minggu Penyelidikan dan Inovasi (MPI2025), UniSZA, May 2025
- **Bronze Award** - 1+1 International Innovation Competition 2023
- **Scholarship Recipient** - Tertiary Education Sponsorship Programme MARA
- **Dean's List Award** - All semesters in Foundation (CGPA 3.98) | Semester 1 & 5 in Degree Programme

LEADERSHIP & COMMUNITY ENGAGEMENT

- **Lead Mentor** - Kinesis Zone PSZN 2023, conducting 4 mentorship programmes (Sisyphean Story Sanctum, Zoetic Quest Quarters, Torchbearer Talk Tables, Mentoring Magic Modules)
- **Academic Volunteer** - STEM Helper for Isolation Students during COVID-19 pandemic, providing remote technical support and tutoring
- **Community Participant** - Visual Healthy Run Charity (fitness for visually impaired), COMTECH Sport Day 2022 (Futsal), LPU Talk: Branding Yourself

REFERENCES

Assoc. Prof. Ts. Dr. Ahmad Shukri Mohd Noor
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