

MOHAMAD AZDI BIN MOHD MUSTAFA

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Professional Summary

A dedicated IT Officer and Web Developer with strong experience in building and optimizing Laravel-based enterprise systems, managing PostgreSQL/MySQL databases, and administering Ubuntu servers (Apache & Nginx). Despite having a physical disability (OKU – left hand paralysis), I maintain strong performance, professionalism, and resilience. Known for adaptability, problem-solving and delivering scalable, high-quality solutions in fast-paced environments. I embrace challenges with a positive mindset and continuously strive to learn, improve and contribute meaningfully to organizational goals.

Work Experience

IT Officer

Universiti Malaya | Kuala Lumpur | Oct 2023 – Present

Key Responsibilities

- Develop and maintain enterprise web applications (Research Portal) using Laravel following best practices and clean coding standards.
- Design and optimize PostgreSQL databases for performance and reliability.
- Collaborate with designers, QA testers and system admins to ensure smooth development and deployment cycles.
- Conduct code reviews, performance optimization and bug fixing for legacy systems.
- Configure and maintain Ubuntu servers, including deployment setup on Apache and Nginx.
- Integrate systems (RESTful API) across departments to streamline university research and financial workflows.

Key Achievements & Projects

- Led major enhancements to the UM Research Portal by module Research Assistant Application (RA), improving stability, performance and user experience for thousands of academic and administrative users.
- Implemented complex backend modules (research grants, budget approvals, Research Assistant salary workflow, publication tracking, integration endpoints) using Laravel, ensuring accurate data flow across departments.
- Optimized PostgreSQL performance through indexing strategies, query optimization, schema restructuring, and database health monitoring, resulting in significantly faster load times.
- Successfully integrated multiple internal systems via REST APIs, including finance, HR, budget, authentication (SSO) and student portals, reducing manual work and ensuring data consistency.
- Refactored legacy codebases to adopt modern Laravel standards (service layers, repository patterns, form requests, events, queues), improving maintainability and reducing technical debt.
- Automated critical workflows such as budget validation, salary generation checks and project approval sequences, reducing processing time and minimizing human error.
- Designed and implemented audit logging modules, allowing administrators to track user actions, data changes and system activity more effectively.

- Developed secure role-based access control (RBAC) with granular permissions to support complex research and finance structures across UM.
- Improved CI/CD deployment processes (GitLab) by configuring automated builds, environment separation, supervisor jobs and log monitoring on Ubuntu servers.
- Enhanced system reliability by setting up scheduled tasks, cron jobs, backup routines and Apache optimizations for production readiness.
- Provided technical leadership by conducting code reviews, guiding junior developers and establishing coding standards.

IT Officer

Universiti Islam Malaysia | Nov 2022 – Oct 2023

Key Responsibilities

- Managed and developed web-based management systems according to institutional needs.
- Oversaw system testing, user training and documentation to ensure smooth operations.
- Led initiatives to enhance IT system stability and efficiency university-wide.

Key Achievements & Projects

- Led the development and enhancement of multiple internal web systems, including student management, course registration, library management and administrative workflow tools using Laravel, PHP and MySQL.
- Successfully improved system performance and stability, reducing bugs and downtime through code optimization, database tuning and server configuration checks.
- Introduced structured testing procedures, including UAT sessions with departments, improving overall system quality before deployment.
- Developed interactive dashboards and reporting modules for academic and administrative units, improving data visibility for decision-making.
- Conducted user training sessions for students, administrators, lecturers and staff, helping them adopt new system features smoothly.
- Implemented centralized error logging and monitoring, enabling faster issue resolution and proactive system maintenance.
- Collaborated with cross-department teams to gather requirements and transform them into functional system designs aligned with university needs.
- Coordinated minor infrastructure improvements, including access controls, scheduled backups and routine system checks to enhance overall IT reliability.
- Provided technical support to end-users, ensuring smooth day-to-day operations across academic and administrative platforms.

Web Developer (Freelance)

Freelance | Jan 2022 – Nov 2022

Key Responsibilities

- Designed and built community and e-commerce web applications with Laravel and MySQL.
- Implemented responsive UIs and secure backend logic.
- Provided maintenance, debugging and feature upgrades for client systems.

Key Achievements & Projects

- Delivered multiple client web applications (community portals, small e-commerce sites, booking systems) using Laravel, MySQL, Bootstrap/Tailwind and REST APIs.
- Successfully deployed full-stack solutions on shared hosting, VPS and cPanel environments, ensuring stable uptime and optimized performance.
- Integrated secure authentication features such as role-based access control, encrypted passwords and activity logging.
- Built reusable Laravel components (CRUD modules, notification systems, payment form templates) that sped up future development and reduced delivery time.
- Developed custom APIs for client systems and data synchronization between platforms.
- Optimized database queries and indexing, improving page load speed and overall system performance.
- Implemented responsive UI/UX improvements, ensuring sites displayed well (responsive web design) on mobile, tablet and desktop.
- Conducted debugging and system audits for legacy PHP/Laravel projects, fixing issues related to authentication, validation, routing and data handling.
- Automated routine tasks such as email notifications, scheduled jobs (cron), invoice generation and report exports.
- Provided end-to-end client support, from requirement gathering, development, testing to training users after deployment.

Assistant IT Administrator (PROTEGE)

Kamalbina Sdn. Bhd./ Taiping, Perak | Feb 2021 – Dec 2021

Key Responsibilities

- Developed and managed a web-based document management system.
- Administered company databases and maintained organized digital record systems.
- Provided IT hardware/software support and workstation setups.

Key Achievements & Projects

- Successfully developed and deployed a full web-based Document Management System, improving document retrieval speed and reducing reliance on manual filing.
- Optimized company database structures, resulting in faster data access and cleaner record organization.
- Implemented automated backup routines to safeguard critical company data and improve system reliability.
- Resolved day-to-day IT incidents and improved response time by documenting common troubleshooting steps for staff.
- Supported network maintenance tasks, including Wi-Fi configuration and access control updates.
- Coordinated with external vendors for hardware repairs, software renewals and system services.
- Enhanced cybersecurity awareness by preparing simple user guidelines on password hygiene and safe email practices.

Automation Engineer (Internship)

Intel Microelectronic Malaysia Sdn. Bhd. | Penang | Oct 2019 – Apr 2020

Key Responsibilities

- Supported automation initiatives in the ESS Autonomous Operations department.
- Contributed to Chatbot Integration Projects and automation workflow improvement.

Key Achievements & Projects

- Developed and deployed internal automation scripts that reduced manual engineering tasks and improved overall workflow efficiency within the ESS Autonomous Operations team.
- Participated in the Chatbot Integration Project, helping integrate automated responses for common technical queries, improving internal support response time.
- Collaborated with senior engineers to test and validate automated workflows for equipment status monitoring and data collection.
- Created documentation and workflow diagrams for automation processes to support knowledge transfer and future improvements.
- Supported troubleshooting and optimization of automated systems, ensuring smoother daily operations for production and engineering teams.

Personal Projects

- **Luno Dashboard (Laravel)**
A custom Laravel dashboard integrating with Luno API to display crypto balances, transactions and live order tracking. Tech: Laravel, REST API, Bootstrap, AJAX, JavaScript
- **MakanMana (Laravel + MySQL)**
Food recommendation web app with an open-source Leaflet Map that randomly selects restaurants. Integrated Leaflet Map and user favorites. Tech: Laravel, MySQL, JavaScript (Canvas), TailwindCSS
- **Waktu Solat Malaysia (API-based Web App)**
Displays real-time prayer times for all Malaysian states using public Jakim API. Tech: Laravel, REST API, Bootstrap
- **PetaCamp (Laravel + TailwindCSS)**
Camping site directory that showcases locations, photos and descriptions of camping spots across Malaysia. Tech: Laravel 12, TailwindCSS, Blade Components, Leaflet Map

Education

- Bachelor of Science Information Technology with Hons. | Universiti Utara Malaysia (UUM), Kedah | 2016 – 2020
- Sijil Tinggi Pelajaran Malaysia (STPM) | Sekolah Menengah Kebangsaan Dato Haji Hussein, Perak | 2014 – 2015

Certifications and Awards

- Certificate of Excellent Service Universiti Malaya (2025)
- Emerging Technology Blockchain in University Context (2025)
- Analyzing Data with Power BI (2025)
- Internet of Things (IOT) for Campus Innovation (2025)

- Laravel Web Development Course Advanced Level (2024)
- Web Application Development with Laravel (2023)
- Sijil Penghargaan Khidmat Cemerlang Universiti Islam Malaysia (2023)
- Soft Skills Training for PROTEGE Program (Public) (2021)

Skills & Proficiency

- **Backend / Framework:** Laravel, PHP, Java
- **Frontend:** HTML, CSS, JavaScript, Bootstrap, TailwindCSS
- **Database:** MySQL, PostgreSQL, Oracle
- **Server / DevOps:** Apache, Nginx, Ubuntu, Windows Server
- **Tools:** VS Code, DBeaver, Laragon, Herd, Android Studio, MATLAB, WordPress, WinSCP
- **Hardware & Systems:** NAS setup, SSD/RAM installation, OS troubleshooting
- **AI Tools:** ChatGPT, Claude, DeepSeek
- **Languages:** Bahasa Melayu (Fluent), English (Intermediate)

References

Available upon request