



MUHAMMAD AIMAN HAKIM BIN MOHD NIZAM

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PROFESSIONAL SUMMARY

Software Engineer with experience in developing and maintaining enterprise web applications using Laravel, PHP, JavaScript, MySQL, and PostgreSQL. Skilled in full-stack web development, database design, RESTful API development, system analysis, and legacy system modernization. Experienced throughout the software development lifecycle (SDLC), from requirements gathering and system design to testing, deployment, and maintenance. Passionate about building secure, scalable, and maintainable software solutions.

WORK EXPERIENCE

Programming, IT Madani Expert Sdn Bhd

Jan 2026 - Present

- Developed and maintained procurement and contractor management systems for Lembaga Air Perak (LAP) using Vanilla PHP and MySQL while integrating new features into existing legacy workflows.
- Designed and developed a Laravel-based Tadika Alumni & Management System from scratch, implementing role-based access control, authentication, reporting modules, and Excel export functionality.
- Managed the complete software development lifecycle including requirements gathering, database design, backend development, testing, debugging, deployment, and production support.
- Performed reverse engineering on a legacy PLGS system without source code by analyzing live PostgreSQL databases and existing business workflows.
- Contributed to the redevelopment of the PLGS platform using Laravel, PostgreSQL, Geoserver, OpenLayers, and Proj4js to support modern GIS-based land management.

Junior Software Engineer, Carsome (K-Youth Program)

May 2025 - Oct 2025

- Designed, developed, and maintained scalable backend services using JavaScript, Node.js, Express, and NestJS.
- Utilized Git, GitHub, and GitLab CI/CD pipelines to streamline collaborative development and deployment workflows.
- Utilized Jira actively for sprint planning, backlog refinement, and daily task tracking, increasing overall delivery transparency within a fast-paced Agile/Scrum team environment.

Internship, Novutal Consulting Sdn Bhd

Sep 2024 - Jan 2025

- Developed and enhanced CRM and HRM modules in Odoo (lead management, sales tracking, biometric attendance).
- Designed workflow diagrams and system documentation to improve usability and training.
- Assisted in website development using HTML, CSS, and JavaScript, ensuring responsive and user friendly design.

EDUCATION

Bachelor of Computer Science with Honours (Networking)

2021 - 2025

Universiti Teknologi MARA, Shah Alam

Matriculation in Computer Science

2019 - 2021

Kolej Matrikulasi Perak

PROJECTS

Payung – Insurance Agent Directory & CRM System (Laravel | MySQL)

- Built a multi-tenant CRM platform using Laravel 13, Fortify, Jetstream, and Spatie Permission.
- Developed responsive interfaces using Livewire, Flux UI, and Tailwind CSS.
- Implemented automated schedulers for insurance policy expiration reminders.
- Built secure Excel import pipelines for bulk customer and policy data migration.
- Designed role-based authentication and authorization with multi-factor authentication support.

PLGS System Modernization & Re-engineering (Laravel | Postgres | Reverse Engineering)

- Reverse-engineered a legacy land management system without access to source code.
- Redesigned the application architecture using Laravel and PostgreSQL.
- Implemented GIS functionality using Geoserver, OpenLayers, and Proj4js.
- Developed secure authentication and audit logging using Laravel Fortify and Spatie packages.
- Analyzed complex business workflows and translated them into maintainable Laravel modules.

SPEED System & SPEED Contractor System (LAP) (Vanilla PHP | MySQL)

- Contributed to the development and rigorous maintenance of core procurement and contractor management systems for Lembaga Air Perak (LAP).
- Implemented custom backend modules, complex database integrations, and legacy workflow enhancements using Vanilla PHP.
- Assisted in deep troubleshooting, debugging, and maintaining high-availability production systems to ensure operational stability.

Tadika Alumni & Management System (Laravel | MySQL)

- Developed a complete alumni management platform with role-based authentication.
- Designed responsive interfaces using Blade, Tailwind CSS, Bootstrap, and Alpine.js.
- Implemented Excel export functionality using Laravel Excel.
- Developed CRUD modules, reporting features, and secure authentication.
- Created PHPUnit tests to improve application reliability.

CRM & Biometric Attendance Module (Odoo)

- Implemented custom CRM features including automated sales pipelines, lead tracking, and seamless HRM integration with ZKTeco biometric devices.
- Built interactive dashboards and automated workflows to optimize data reporting and maximize client operational efficiency.

Website Development (Odoo)

- Designed and implemented a custom membership system within Odoo to streamline client registration, multi-tier workflows, and client updates.
- Redesigned and deployed the company website using the Odoo platform with modern navigation and mobile optimization to elevate overall user engagement.

Web-Based Management System – Fishing Pond Operations (Laravel | MySQL)

- Designed and developed a booking and inventory management platform using Laravel, HTML, CSS, and JavaScript.
- Integrated structural database management and backend logic to safely handle complex staff scheduling and real-time customer operations.

Automated Plant Watering System (Arduino | IoT | C/C++)

- Developed hardware components including soil moisture sensors, water pumps, and an Arduino microcontroller for real-time data processing and control.
- Programmed the Arduino board using C/C++ to orchestrate the operation of sensors, actuators, and communication protocols with the IoT platform.

CERTIFICATIONS

- AI For MY Future - **Microsoft**
- CompTIA Tech+ - **CompTIA**
- CCNAv7: Switching, Routing, and Wireless Essentials - **Cisco**
- CCNP Enterprise: Core Networking - **Cisco**
- Python Essentials 1 - **Cisco**
- Introduction to Cybersecurity - **Cisco**
- JavaScript Essentials 1 - **Cisco**

ACTIVITIES

- **Competitor, Curtin Malaysia CTF Hackathon (2023):** Competed in a nationwide cybersecurity capture-the-flag challenge and ranked 9th out of 88 teams across cryptography, reverse engineering, and web vulnerabilities.
- **Development Team Member, Service @ Kampung Padang Jawa (2024):** Led the engineering of an Arduino-based IoT prototype for flood prevention, coordinating hardware assembly and field testing to meet community needs.
- **AJK for SULAM Project Network Security @ SMK Seksyen 18 (2023):** Coordinated the "Remaja Bijak Siber" program, conducting interactive technical workshops on cybersecurity awareness, network safety, and digital ethics for youth.

TECHNICAL SKILLS & LANGUAGES

Languages

- PHP • JavaScript • TypeScript • Python • Java • C • C++

Frontend Development

- Blade • Livewire • Alpine.js • React • Vue.js • Inertia.js • HTML5 • CSS3 • Tailwind CSS • Bootstrap

Backend Development

- Laravel • RESTful API Development • JSON APIs • Eloquent ORM • Vanilla PHP • Node.js • Express • NestJS • Authentication & Authorization • MVC Architecture • Object-Oriented Programming (OOP)

Databases

- MySQL • PostgreSQL • Relational Database Design • Database Migration • Query Optimization

GIS

- Geoserver • OpenLayers • Proj4js

Tools & DevOps

- Git • GitHub • GitLab CI/CD • Composer • Linux (Ubuntu) • Jira • Odoo ERP

Networking

- TCP/IP • DNS • BGP • Wireshark • Cisco Packet Tracer • GNS3 • Cybersecurity Awareness

REFERENCES

1. Madani IT Experts Sdn Bhd

- Noor Haliza Binti Mohamed Saufi | IT Software Executive
- +013-328 2356
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2. Aisling Consultant (K-Youth Program)

- Vamanissri A/P Vasuthevan | HR
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3. Novutal Consulting Sdn Bhd

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