MUHAMMAD AMIRUL AIMAN MOHD AZHAR

Full Stack Developer

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CAREER OBJECTIVE

Computer Science graduate (UKM) and Software Developer with over a year of professional experience delivering full stack web and mobile applications, from Laravel and PHP back end services and RESTful APIs to React and Vue front ends and native Android apps. Independently built and launched an AI-assisted SaaS platform for Malaysian SMEs, covering subscription billing, multilingual interfaces, secure authentication and Docker deployment, and has resolved live production incidents under pressure. Seeking a Full Stack Developer role where I can build dependable custom software for business clients and keep growing within a collaborative team.

SKILLS

- Programming Languages: PHP, JavaScript, TypeScript, Java, SQL, HTML, CSS
- Back End & APIs: Laravel, Node.js, Express, Spring Boot, RESTful API design, Laravel Sanctum authentication, queue-based asynchronous processing
- Front End: React, Vue.js, Blade, Tailwind CSS, Vite, Bootstrap, responsive and multilingual interfaces
- Mobile Development: Android (Java), React Native, Flutter, Firebase
- Databases: MySQL, PostgreSQL, MongoDB, Redis, Cloud Firestore
- DevOps & Tools: Docker, Nginx, Red Hat Linux, Git, GitHub, Composer, Figma
- Core Competencies: payment gateway integration, role-based access control, production incident response, root-cause analysis, data-integrity recovery, software testing
- Languages & Soft Skills: Fluent in Bahasa Melayu; intermediate in English; analytical problem-solving, team collaboration, clear communication

EDUCATION

Bachelor of Computer Science with Honours (Software Technology) **Oct 2022 – Nov 2025**
Universiti Kebangsaan Malaysia (UKM), Bangi, Selangor

Diploma of Information Technology (Digital Technology) **Jun 2019 – Feb 2022**
Politeknik Ungku Omar, Ipoh, Perak

- Received Head of Department's Award in Semester 2 through Semester 6

Malaysian Certificate of Education (SPM) **Jan 2014 – Dec 2018**
SMK Bukit Changgang, Banting, Selangor

WORK EXPERIENCE

Software Developer **Jan 2025 – Present**
Swiss Link Communications Sdn Bhd, Cyberjaya

- Developed and deployed new system features and enhancements across web and mobile applications, improving functionality and supporting evolving business requirements for internal users and clients.
- Designed and implemented RESTful APIs to enable seamless system integration and secure data communication, improving interoperability between multiple applications.
- Maintained and optimized existing systems by resolving defects, implementing client-requested improvements, and enhancing performance, resulting in more stable and responsive applications.

- Led the migration of applications from legacy environments to modern platforms and developed a new company mobile application, supporting business operations while ensuring system reliability and scalability.
- Built Öuruz Bisnis, an AI-assisted meeting-minutes SaaS for Malaysian SME admin teams, using Laravel 13, PHP 8.3, Tailwind CSS, and queue-based async processing, live at bisnis.ouruz.my.
- Shipped the end-to-end workflow: voice/text capture, AI draft generation, admin review and edit, a searchable meeting repository, and branded PDF/DOCX export (DomPDF, PHPWord).
- Implemented Freemium subscription tiers with ToyyibPay billing, per-account data isolation, and activity audit logging to support security and Malaysian compliance (PDPA) expectations.
- Delivered a trilingual UI (English, Bahasa Malaysia, Chinese), a REST API secured with Laravel Sanctum, secure share links, and Docker-based deployment to production.

Full-Stack Development (Laravel/PHP, MongoDB, Android/Java)

- Built and shipped features end-to-end across a Laravel/MongoDB admin backend and a native Android field-enforcement app, including a new sysadmin-only analytics dashboard tracking app-version adoption across the enforcement workforce.
- Designed a cross-platform feature (Android to API to web dashboard) to report and visualize mobile app version adoption, enabling data-driven rollout decisions instead of guesswork.
- Redesigned multiple record-editing interfaces (compound/notice management) to a modern, consistent UI system based on iterative stakeholder feedback across multiple review cycles.

Production Incident Response & Debugging

- Diagnosed and resolved a live production outage (fatal PHP errors blocking all users) by tracing the root cause through a corrupted dependency and autoloader state, without direct server access, guiding a non-technical operator through Git and Composer recovery steps in real time.
- Root-caused a recurring HTTPS/mixed-content bug by replacing unreliable environment-based detection with a request-based check, eliminating a class of production-only bugs that did not reproduce locally.
- Identified and fixed a broken Git submodule reference in a critical PDF-generation dependency before it reached production, a silent failure that would have broken document generation on any fresh deployment.

Data Integrity & Legacy System Recovery

- Investigated and resolved a data-integrity issue stemming from historically non-unique record identifiers, building tooling (diagnostic commands, a duplicate-record picker, a shared-evidence-pool photo review UI) that let staff safely reconcile years of legacy records without data loss.
- Designed a graceful degradation path for oversized PDF generation (413 errors) that let enforcement staff manually curate evidence attachments instead of the system failing outright.

Process & UX Improvement

- Simplified a 4-field vehicle-data entry form into a single free-text field based on direct end-user (enforcement officer) feedback, while preserving full backward compatibility with existing printed and PDF document formats and years of historical records.
- Expanded vehicle model reference data across 6 vehicle categories (cars, motorcycles, trucks, vans, buses, 4WDs) to reflect the full range of vehicles actually encountered in the field, reducing reliance on free-text fallbacks.

Internship Trainee **Sept 2024 – Jan 2025**

Swiss Link Communications Sdn Bhd, Cyberjaya

- Collaborated closely with development team members to support daily system tasks, demonstrating strong work ethic and adaptability while gaining hands-on experience in real-world software development environments.
- Authored and finalized multiple user manuals and technical documents for internal systems, incorporating stakeholder feedback to improve usability, accuracy, and alignment with project requirements.

- Performed bug fixing and error resolution across several existing systems, contributing to improved system stability, reliability, and smoother user experience.
- Supported system documentation and maintenance by generating database structure and program file reports for E-DND systems and applying version control practices using Git to ensure organized, traceable development work.

Internship Trainee **Sept 2021 – Feb 2022**

Pos Digicert Sdn Bhd, Cyberjaya

- Developed and integrated front-end features using HTML, CSS, and JavaScript, supporting API integration and improving website functionality and user interaction efficiency.
- Designed and built a full CRUD web application, strengthening backend logic and database management skills while supporting reliable data creation, retrieval, updating, and deletion.
- Applied Java programming and object-oriented principles through hands-on collaboration with experienced developers, improving debugging accuracy and understanding of real-world application development.
- Contributed positively to team culture by collaborating effectively with colleagues, improving English communication and translation skills, and actively participating in company programs, achieving Top 10 placement in a company-wide virtual run event.

SELECTED PROJECTS

LogBook Digital+ **Final Year Project, UKM**

PHP, MySQL, JavaScript, Bootstrap

- Developed a web-based digital logbook that replaces paper records for final year project supervision, enabling students to record weekly progress, current status, problems encountered, and planned tasks for the following week.
- Implemented role-based access control for students and supervisors, with a supervisor review and approval workflow featuring written feedback, a digital e-signature, and automatic Pending/Checked status tracking.
- Designed the relational MySQL database, secured all data access with PDO prepared statements, and provided sortable records with print and PDF export for reporting.

ProSafety Application **Final Year Project, Politeknik Ungku Omar**

Android (Java), Firebase, Google Maps API

- Built an Android personal safety application that sends an emergency SOS text message containing the user's live Google Maps location to saved emergency contacts when the phone is shaken three times.
- Implemented a persistent background service using the accelerometer for shake detection and the Fused Location Provider for GPS, with automatic service restart and a fallback alert when location is unavailable.
- Integrated Firebase Authentication, Realtime Database, and Storage for registration, sign in, password reset, and profile management, alongside a Google Maps view of nearby locations.

SchoolManage **Live: schoolmanage-c1fef.web.app**

React, Vite, Firebase, Cloud Firestore

- Built a school operations system for SMKA Tok Bachok covering digital lesson plans (e-RPH), MMI check-ins, assembly attendance, and co-curriculum reporting.
- Delivered live administrative dashboards backed by Cloud Firestore, giving school management real-time visibility of daily operations.

ResiOne

React Native, Expo, TypeScript, Firebase

- Built a multi-tenant mobile application for residents' associations, supporting fee and khairat collection, community programmes, committee contacts, and administrative reporting.

- Designed the platform so multiple associations can operate independently on a shared application, each managing its own members and records.

Studio Management System

React, TypeScript, Vite, Tailwind CSS, React Router

- Built a TypeScript-powered agency workspace consolidating client management, project tracking, task assignment, invoicing, and scheduling into one dashboard, replacing what would otherwise require multiple disconnected tools.
- Applied modern admin-panel architecture and type-safe development practices to deliver a scalable, maintainable interface for managing multi-client operations end to end.

Wedding Invitation (Kad Perkahwinan)

Laravel, PHP, Blade, MySQL, JavaScript

- Designed and built a full-featured Laravel wedding invitation platform, combining guest RSVP management with seat-limit enforcement to keep event capacity under control.
- Integrated Google Maps/Waze navigation links, one-tap call/WhatsApp contact, calendar exports, and a complete admin panel, delivering a production-ready tool actually used for a real event.

Loan Tracker

Laravel, PHP, Blade, MySQL

- Built a full-featured Laravel application for managing loans end to end, covering loan creation, repayment scheduling, and real-time tracking of outstanding balances.
- Implemented complete CRUD functionality and clean data relationships to keep financial records accurate and easy to audit.

Haven Clinic Management System

Java, Spring Boot, Thymeleaf, Spring Security, H2

- Engineered a full-featured clinic management dashboard from the ground up, handling end-to-end workflows for appointment scheduling, patient records, room allocation, and billing in a single unified system.
- Designed a relational data model connecting patients, appointments, rooms, and invoices, demonstrating the ability to architect multi-module systems comparable to real healthcare administration software.

Event Booking

Laravel, PHP, Blade, CSS

- Developed a web application for browsing and booking events, engineering a booking flow that takes users seamlessly from event discovery to confirmed reservation.
- Prioritized a clean, intuitive user experience to reduce friction in the booking process, a key consideration in customer-facing platforms.

CRUD with Node.js API

Node.js, Express, JavaScript, HTML, CSS

- Built a complete CRUD REST API from scratch using Node.js, covering create, read, update, and delete operations with clean, well-structured endpoints.
- Served as a foundational project for mastering RESTful API design and backend architecture outside the Laravel ecosystem, broadening full-stack versatility.

NewsLetter

Laravel, PHP, Blade, JavaScript

- Rapidly built a functional Laravel application as a live technical assessment for an industrial-training interview, demonstrating the ability to deliver working software under time pressure.

- Showcased strong command of Laravel fundamentals, from routing and controllers to database-driven views, within a compressed development window.

MyCafe App

Android, Java, XML

- Built a mobile ordering application in Java, covering menu browsing, cart management, and order placement in a smooth end-to-end flow.
- Applied mobile UI/UX best practices and order-management logic, demonstrating capability across both web and native mobile development.

CERTIFICATES & TRAINING

- CompTIA Cloud+
- Red Hat System Administration I & II (RH124, RH134)
- Anugerah Ketua Jabatan (Head of Department’s Award), Semesters 2 to 4
- IPAD 3.5 Dean’s List Recognition, Semesters 2 to 5
- Coding Challenges, Politeknik Ungku Omar
- Bengkel Figma & Bravo Workshop
- Bengkel Unity: Pembangunan Permainan Video (Game Development Workshop)
- Bengkel Firebase Workshop
- Kampus Digital, PwC Malaysia
- Augmented Reality with Blender Competition
- Webinar Kemahiran Interpersonal (Interpersonal Skills Webinar)
- FTSM Bonding Day
- Persediaan Menghadapi Temuduga Kerjaya (Career Interview Preparation Program)
- Industrial Visit, Xsolla

INVOLVEMENTS & EXTRACURRICULAR ACTIVITIES

SIG Club (Student Interest Group), FTSM, Universiti Kebangsaan Malaysia

Figma & Bravo Workshop: Participant & Program Assistant **Nov 12, 2022**

Organized by the Mobile Application Development Club (MAD)

- Learned to design interactive prototypes for web and mobile applications using Figma and Bravo, translating ideas into clickable, presentation-ready UI mockups.
- Served as a program assistant, supporting fellow participants throughout the session and helping ensure the workshop ran smoothly from start to finish.

Firebase Workshop: Participant **May 16, 2023**

Organized by MAD, Executive Discussion Lab, Block G, FTSM UKM

- Learned to build a functional mobile application in Android Studio and connect it to a live Firebase database for real-time data storage and retrieval.
- Gained hands-on experience linking front-end app development with cloud-based backend services, a core skill for modern mobile development.

Gamedev Unity Workshop: Participant **June 6, 2023**

Organized by the Programming Club, Makmal Pengajaran 2, FTSM UKM

- Built a functional 2D game from scratch in Unity, combining game design principles with hands-on scripting and coding.
- Took part in an interactive evening quiz alongside fellow participants, reinforcing the day's technical content in a collaborative, engaging format.

Persediaan Menghadapi Temuduga Kerjaya: Participant

Career interview preparation program

- Took part in a career-readiness program covering interview techniques, professional presentation, and how to structure an effective resume and CV.
- Applied the session's guidance to refine personal resume and CV formatting, building confidence and readiness for real job interviews.

Kemahiran Interpersonal Dunia Perniagaan: Participant

Interpersonal skills in business webinar

- Attended a business-focused interpersonal skills webinar covering professional communication, workplace etiquette, and effective collaboration within teams.
- Applied the session's frameworks to strengthen soft skills relevant to cross-functional teamwork in a professional software development environment.

Kampus Digital (PwC Malaysia): Participant

Digital campus initiative in collaboration with PwC Malaysia

- Took part in PwC Malaysia's Kampus Digital initiative, building practical Microsoft Excel skills for data organization and analysis.
- Collaborated in a group setting to complete a structured Excel-based task from start to finish, strengthening teamwork and attention to detail under a shared deadline.

Augmented Reality with Blender Competition: Trainer, Judge

Supported and evaluated participants building AR experiences in Blender

- Served as trainer, teaching participants how to build augmented reality experiences in Blender, from 3D modeling fundamentals to AR integration.

- Judged final submissions, evaluating creativity and technical execution to support participants' growth in AR development.

Industrial Visit (Xsolla): Participant

Industry exposure visit to Xsolla

- Took part in an industrial visit to Xsolla, gaining direct exposure to real-world operations in the game-technology and digital payments industry.
- Observed how a global technology company structures its engineering and business processes, broadening perspective beyond academic project work.

Coding Challenges: Participant

Participants in a coding challenge event

- Took part in a coding challenge event, solving programming problems under time constraints alongside fellow students.
- Strengthened problem-solving speed and algorithmic thinking through direct, competitive practice.

REFERENCES

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