

MUHAMMAD AMIRUL AIMAN MOHD AZHAR

Software Engineer

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CAREER OBJECTIVE

A Computer Science graduate and Software Engineer with hands-on experience building and maintaining enterprise-grade web and mobile applications, including RESTful API design, full-stack development, and system integration. Strong foundation in Java, JavaScript, and modern frameworks, with a track record of resolving defects, improving performance, and delivering reliable, scalable solutions. Seeking a Software Engineer role where technical rigor, test-driven quality, and a continuous learning mindset can contribute to high-quality software products.

SKILLS

- Languages & Frameworks: Java, JavaScript, PHP, Laravel, Blade, Tailwind CSS, Vite, HTML, CSS, Node.js, Vue.js, Visual Basic .NET
- Backend & APIs: REST API design, Laravel Sanctum, queue-based async processing, migrations, middleware, session/token authentication
- Databases & DevOps: MySQL, PostgreSQL, MongoDB, Docker, Nginx, Redis, environment-based configuration
- Mobile & Tools: Android Studio, Flutter, React Native, Figma, Unity, Firebase, Git & GitHub
- Systems & Design: Red Hat System Administration (RH124, RH134), Adobe Premiere, Photoshop
- Office & Productivity: Microsoft Word, Excel, PowerPoint
- Core Competencies: CRUD application development, debugging & troubleshooting, production incident response, legacy system and data-integrity recovery, data structures & algorithm fundamentals, software testing & code quality, PDF/DOCX document generation, payment gateway integration
- Languages: Fluent in Bahasa Melayu; intermediate in English

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

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

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

Full portfolio: github.com/Mierul01

Haven Clinic Management System

- 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.

Studio Management System

- 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.

LogBook Digital+

- Designed and developed a digital logbook system as a final-year capstone project at UKM, replacing error-prone, paper-based academic record-keeping with a structured, searchable digital workflow.
- Focused on data accuracy, usability, and streamlined review access for students and supervisors, reflecting real-world requirements gathering and stakeholder-driven design.

ProSafety Application

- Developed a Java-based workplace safety application as a final-year diploma project at Politeknik Ungku Omar, enabling structured logging and tracking of safety checks and incident reports.
- Built with compliance and auditability in mind, demonstrating the ability to translate real operational safety requirements into functional software.

Loan Tracker

- 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.

NewsLetter

- 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.

CRUD with Node.js API

- 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.

Event Booking

- 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.

MyCafe App

- Built a mobile I-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.

Wedding Invitation (Kad Perkahwinan)

- 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.

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

Dr. Hadi Affendy Dahlan

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