

MUHAMMAD AMIRUL ADAM BIN MOHD NAZRI

Bachelor of Computer Science (Software Engineering) with Honours

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PROFESSIONAL SUMMARY

Software engineering graduate with hands-on experience across the full development stack, from ASP.NET and PHP/Laravel backends to Next.js and React frontends, with additional exposure to Node.js, Django, Docker, and real-time systems via Socket.io. Proven ability to deliver production-ready systems including an enterprise logistics platform and a live AI-powered POS system with hardware integration. Comfortable working across frameworks and languages, with a strong foundation in software testing, UI/UX design, and containerised deployment. Seeking a challenging software engineering role.

WORK EXPERIENCE

Rank Alpha Technologies Sdn. Bhd.

Mar 2026 – Aug 2026

Software Engineering Intern · Puchong, Selangor

- Developed ASP.NET web modules for the enterprise Shipper Portal, including User Registration and OTP-based Password Recovery with ROC Number verification.
- Designed UI wireframes and implemented ASP.NET interfaces for Rack Location Detail and Inventory Stock Adjustment features in the Warehouse Management System (WMS).
- Refactored dashboard UI components — resizing cards, adjusting typography, and migrating a notification component from dropdown to sidebar panel layout.
- Conducted functional, regression, and end-to-end testing across WMS and MCC Manifest SA logistics platforms; drafted and reported bug findings to the development team.
- Produced user documentation and video walkthrough screen captures for the MCC Manifest SA system.
- Managed customer software licence renewals and mentored a new intern on system workflows.

Universiti Malaysia Pahang Al-Sultan Abdullah

2024

Staff cum System Developer

- Developed a Python-based QR code generator system deployed in student hostels, displaying furniture asset information — improving daily operational workflow efficiency by an estimated 30%.
- Gathered requirements, designed, and delivered the system end-to-end, contributing to improved data management and streamlined administrative reporting.

Palaterium Sdn. Bhd. (HWC Coffee), The Garden Mall

Jul 2025 – Sep 2025

Barista

- Operated POS system and handled cashless transactions with accuracy and efficiency.
- Maintained workspace hygiene and performed opening/closing duties demonstrating reliability and discipline.

EDUCATION

Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA)

2022 – Present

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Final Year Project: AI-Powered Fruit and Vegetable Recognition System for Automated Pricing

Pulau Pinang Matriculation College

2021 – 2022

Computer Science Module

CGPA: 3.54

PROJECTS

Hentian Sebelah Ticketing System

May 2026

github.com/AmirulAdam1/hentian-sebelah · Next.js 16, React 19, TypeScript, Tailwind CSS v4, Supabase

- Built a full-stack ticketing and operations platform for a two-day university theatre show, serving real users end-to-end with zero downtime.
- Implemented an interactive seat map with real-time seat locking, a 7-minute reservation window, bank transfer + receipt upload flow, and order tracking by reference ID.
- Delivered 334 tickets sold across 139 orders over a 10-day sales window (8–17 May), handling a peak of 28 concurrent orders in a single day.
- Built a protected admin panel covering dashboard analytics, promo code management, bus passenger grouping, order management, and show configuration.
- Integrated Supabase Postgres with RLS policies, an atomic seat-booking RPC function, and Supabase Storage for receipt uploads.

AI-Powered Fruit & Vegetable Recognition System

Nov 2025 – Jan 2026

github.com/AmirulAdam1/AI-Fruit-Vegetable-Recognition · Python, Tkinter, OpenCV, Google Gemini Flash API, SQLite, ReportLab, PySerial

- Built a desktop POS system that identifies produce via AI camera recognition and calculates prices automatically — integrating an RS-485 weight scale, thermal printer, and Google Gemini Flash multimodal model.
- Achieved 90% classification accuracy across 120 test cases (12 produce types) with a 1.45s average response time, exceeding all project targets.
- Implemented async threading to keep the UI responsive during API calls, fuzzy string matching for API output variations, and dynamic PDF receipt generation for 80mm thermal paper.
- Delivered full admin panel with product management, analytics dashboard, and user authentication; validated through 266 test cases across unit, integration, system, and UAT phases.

TECHNICAL SKILLS

Proficient: Python, PHP, Laravel, JavaScript, TypeScript, CSS, Java, ASP.NET, C, Flutter, Next.js, Node.js, Express.js, Django

Familiar: SQL / Database Management, REST APIs, Git, Supabase, Socket.io, Docker, Kubernetes

Concepts: Data Structures & Algorithms, Software Testing & QA, UI/UX Design, Project Management, Containerisation & Deployment

Tools: Microsoft Office Suite (Advanced), Canva

LEADERSHIP & INVOLVEMENT

- Head of Logistics & Technical Committee, Larian Amal UMPSA 2025
- Badminton Person-in-Charge (PIC), COMBAT 2025 — Computing Battle of Athletic Talent, PETAKOM UMPSA
- Supreme Council Member, Multimedia Kelab Senandika UMPSA (2024–2025)

LANGUAGES

Malay: Native **English:** Full Professional Proficiency

REFERENCES

Mohd Saiful Adzrin Bin Adnen

Student Welfare & Services Dept, UMPSA
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Noorlin Binti Mohd Ali

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