TUAN KHALIDAH SYAZWANA BINTI TUAN MOHD KASMAWI

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PROFESSIONAL SUMMARY

Software Engineering graduate with hands-on experience in web and mobile application development, secure authentication, database-driven systems, and UI/UX optimization. Skilled in PHP, Laravel, Java, Flutter, React Native, MySQL, and Firebase, with proven ability to deliver functional, maintainable solutions through internships and real-world projects.

SKILLS SUMMARY

- Programming Languages: Python, Java, JavaScript, PHP, SQL, C, C++, R, HTML, CSS, XML
- Frameworks & Libraries: Laravel, Bootstrap, Pandas, React Native, Flutter
- Databases & Backend: MySQL, Firebase (Firestore & Auth), SQLite, XAMPP, Laragon
- Mobile & Web Development: Android (Java), RESTful APIs, Responsive Web Design, Authentication & Authorization
- Tools & Platforms: Git, GitHub, Linux, Power BI, Excel, VS Code, Android Studio, IntelliJ IDEA, RStudio
- Core Competencies: System Development, Software Testing, Debugging, Performance Optimization, Database Design, Secure Coding, UI/UX Enhancement
- Soft Skills: Problem Solving, Communication, Team Collaboration, Time Management, Adaptability, Leadership

EDUCATION

Tun Hussein Onn University of Malaysia — Johor, Malaysia
Bachelor of Computer Science (Software Engineering) with Honours | GPA:3.50 — **Oct 2022 – Jan 2026**

Pahang Matriculation College — Pahang, Malaysia
Science Stream (Physical Science) | GPA: 3.63 — **Oct 2021 – Jul 2022**

SMK Agama Dato' Haji Abbas — Terengganu, Malaysia
Malaysian Certificate of Education (SPM) | Result: 7A 3B 1C — **Jan 2019 – Feb 2021**

WORK EXPERIENCE

System Developer Intern | Majlis Agama Islam Dan Adat Melayu Terengganu (MAIDAM) — **Aug 2025 – Jan 2026**

- Developed and enhanced a PHP–MySQL web system supporting multi-role access (user, sub-admin, admin, court), improving operational workflow efficiency.
- Implemented secure authentication features including password hashing, validation rules, reset workflows, and strong password enforcement.
- Designed robust document upload and replacement logic, reducing duplicate data issues and improving file management reliability.
- Built automated email notification workflows to streamline application status updates across users and administrators.
- Improved UI/UX performance and responsiveness, enhancing usability across devices and reducing user errors during submissions.

PROJECTS

ZenFlow Tracker – Mobile Fitness Application (React Native) — **Feb 2026**

- Built a cross-platform fitness tracking app using React Native and Expo with offline-first architecture via AsyncStorage.
- Implemented exercise routines, timers, progress analytics, statistics dashboards, and data export, increasing usability for long-term tracking.
- Integrated video-based exercise guidance and clean UI components for improved user engagement.

Sistem Pengurusan Peguam Syarie (Web-Based) — **Aug 2025 – Jan 2026**

- Developed a PHP–MySQL system supporting four user roles (User, Sub-Admin, Admin, Court) with role-based access control.
- Automated application, renewal, appeal, payment, interview, and approval workflows, significantly reducing manual processing.
- Designed a structured, auditable process aligned with real-world certification requirements.

Cheez n' Cream – Admin Mobile Application (Flutter & Firebase) — **Dec 2025**

- Developed a Flutter admin app with real-time Firebase Firestore synchronization for products, orders, customers, and expenses.
- Implemented secure authentication, live dashboards, PDF report generation, and daily sales summaries.
- Delivered a modern, animated UI with real-time analytics to support business decision-making.

Personal Portfolio Website — **Nov 2025**

- Designed and deployed a responsive portfolio website showcasing projects, skills, certificates, and contact features.
- Implemented light/dark mode, animations, SEO optimization, interactive modals, and GitHub Pages deployment.

GlowGuide – E-Commerce & Consultation Mobile App   **Oct 2024 – Jun 2025**
- Built an Android application (Java) integrating product purchasing and online consultation booking.
- Developed a Laravel-based admin panel for managing users, products, orders, and bookings.
- Implemented real-time data synchronization and user-friendly UI to improve customer experience

FRIENDS_WebApp   **Jan 2025**
- Developed a full-stack ASP.NET Core MVC web application with complete CRUD functionality for managing friends, favorite songs, food records, and photo galleries.
- Implemented secure user authentication and authorization using ASP.NET Identity, ensuring protected access to personal data.
- Designed a responsive, visually engaging UI with custom themes, gradient backgrounds, toast notifications, and nostalgic branding to enhance usability and user engagement.

E-KOOP Inventory Web Based System   **Jul 2024**
- Developed a database-driven inventory management system to track products, stock levels, suppliers, transactions, and reorder points, improving inventory accuracy and control.
- Designed and managed a relational database schema, ensuring data integrity, efficient queries, and seamless updates across inventory operations.

Tic-Tac-Toe Game App   **Jun 2024**
- Built an interactive Tic-Tac-Toe game using Java, implementing complete game logic, win/draw detection, and turn-based controls.
- Designed GUI components to deliver a smooth and intuitive gameplay experience.

DATA, AI & ANALYTICS PROJECTS
- **Rice Leaf Disease Detection (Deep CNN)**: Designed, trained, and evaluated CNN models for image-based disease classification, applying image preprocessing and performance evaluation techniques.
- **Diabetes Prediction Models**: Built and compared Random Forest, Logistic Regression, and K-Nearest Neighbors (KNN) models with data preprocessing, feature selection, and accuracy evaluation.
- **Air Quality & Health Impact Analysis**: Analyzed and visualized datasets using Power BI and DAX, delivering insights through descriptive, diagnostic, and prescriptive analytics.
- **Algorithm Analysis**: Evaluated and compared DFS, BFS, and Dijkstra's algorithms based on efficiency, accuracy, and computational complexity across multiple datasets.

NETWORKING & SYSTEM PROJECTS
- Designed SOHO and campus-scale network architectures with guest network isolation, scalability, and security considerations.
- Configured virtual network environments and executed server–client scripting using Kali Linux, Ubuntu, and VirtualBox.
- Developed OOP-based systems, including payroll management solutions and Java GUI applications, applying core software engineering principles.

CERTIFICATES

- CCNA: Introduction to Networks – Cisco
- Data Mining & Predictive Analytics for Business
- Data Structures & Algorithms in Python
- Power BI (Beginner & Data Modelling)
- SAS Viya & SAS Visual Analytics

REFERENCES AVAILABLE UPON REQUEST