SHAHIDATUL HIDAYAH BINTI AHMAD FAIZAL

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PROFESSIONAL SUMMARY

High-achieving Bachelor of Computer Science (Human-Centered Computing) student at Universiti Utara Malaysia with a strong academic record (CGPA 3.88) and consistent Dean's List recognition. Experienced in developing user-centered applications across web, mobile, and data-driven platforms, with hands-on exposure to machine learning, data visualization, and IoT-based systems. Proven ability to design intuitive interfaces, build interactive dashboards, and implement predictive models using Python, JavaScript, Flutter, and OpenCV. A collaborative and proactive team player, actively seeking a 6-month **internship (1st April– 30th September 2026)** to apply technical knowledge, enhance professional skills, and contribute to impactful digital solutions.

EDUCATIONAL BACKGROUND

Universiti Utara Malaysia (UUM), Sintok, Kedah 2022 - Present
- Bachelor of Computer Science (Human-Centered Computing) with Honours
- Current CGPA: 3.88 (Consistently awarded Dean's List for Semesters 1–6)

Kolej Matrikulasi Perlis (KMP), Arau, Perlis 2021 - 2022
- Matriculation Physical Sciences
- CGPA: 3.75

PROJECT EXPERIENCE

AI-Powered Sorting Hat (Final Year Project) - *Python, Scikit-learn, ESP32, HTML/CSS/JavaScript*
Dec 2025
- Developed an AI-based system to predict Hogwarts house and potential career paths using quiz responses combined with real-time HRV data (ESP32) and facial expression analysis, achieving 83.33% prediction accuracy.
- Designed, trained, and integrated machine learning models (KNN and Decision Tree) with a web-based graphical user interface to enable interactive predictions and data visualizations.

Global Earthquake Analytics (1995–2023) - *Python, JavaScript, D3.js, XGBoost* July 2025
- Developed an interactive analytics dashboard to analyze global earthquake data, featuring real-time filtering, heatmaps, and statistical correlation visualizations.
- Implemented machine learning models including XGBoost and Random Forest to predict tsunami risk, achieving 86.75% prediction accuracy based on historical seismic data.

SmartElder: IoT Elderly Safety Monitor - *Flutter, Dart, SQL,PHP* June 2025
- Developed a cross-platform Flutter application featuring real-time dashboards, emergency alerts for falls and fire incidents, and remote device control, integrated with ESP32 sensors (PIR, vibration, and flame) for continuous 24/7 monitoring.
- Built and maintained a PHP backend with MySQL to process and store sensor data, achieving sub-5-second latency for critical alerts and enabling historical data analysis for caregivers and administrators.

Plastic Waste Visualization - *HTML, JavaScript, D3.js* May 2025
- Developed an interactive data visualization dashboard to present global plastic waste trends using D3.js, featuring dynamic charts and geographic maps.
- Enabled user-driven data exploration through interactive filters, dropdown menus, and tooltips to enhance analytical insights.

MyMemberLink App - *Flutter, Dart, SQL* Dec 2024

- Developed a cross-platform mobile application for managing member data using Flutter, focusing on usability, performance, and scalability.
- Designed and implemented user-friendly interfaces and efficient data management workflows with integrated SQL database support to ensure data accuracy and reliability.

Underwater Object Detection System - *Python, OpenCV, SVM* Feb 2024

- Developed a computer vision system to detect and classify marine life from grayscale underwater images using Support Vector Machine (SVM) and OpenCV techniques.
- Designed and implemented a real-time user interface to enable image input, processing, and species classification with responsive visual feedback.

TECHNICAL SKILLS

Programming Languages : Skilled in Python, Java, HTML, CSS, JavaScript, PHP, Dart.
Frameworks and Tools: Knowledgeable in Flutter, Arduino, Visual Studio Code, MySQL, Firebase, PhpMyAdmin, Octave, Power BI and Looker Studio, Figma.
Sensors and Microcontrollers: Advanced in ESP32, pulse sensor, fingerprint sensor, GPS, RFID, water sensor, PIR sensor, ultrasonic sensor, and DHT11.

CERTIFICATIONS

AWS Cloud Practitioner Certification (In Progress): Acquired foundational knowledge of the Amazon Web Services (AWS) cloud computing platform, including core cloud concepts, services, and best practices.
CCNAv7 - Introduction to Networks (Cisco): Completed certification covering foundational networking concepts, including network architecture, IP addressing, basic routing and switching, and network security fundamentals.

CO-CURRICULAR ACTIVITIES

Innovate-IT 4.0 Exhibition of Final Year Project : Exhibited and presented a final year project titled Sortify: Ai-Power Sorting Hat Personality-Based House Classification.
IDuCation: Smart ID-Powered Inclusive Learning Platform for Rural Malaysia (Hackathon Project – NexG GodamLah 2.0): Developed a Smart ID–based education platform to support student access, learning progress tracking, and secure authentication, and built a KSSR-aligned web platform with interactive progress visualization.
Leadership & Club Involvement: Served as an Executive Committee (Exco) member for Multimedia in Club Patriot Chapter Selangor, Kuala Lumpur, and Putrajaya from 2023 to 2025, supporting digital content creation and multimedia initiatives.
UI/UX Hackathon Participation: Participated in UI/UX 24Hours Hackathon Design Competition organized by CDX, Bank Islam Malaysia Berhad (2024).

ADDITIONAL INFORMATION

Areas of Focus: Data Analytics, UI/UX Design, Data Visualization, Mobile Development, and Machine Learning, with experience in designing user-centered interfaces, developing interactive visual solutions, building cross-platform mobile applications, and applying machine learning techniques for data-driven solutions.
Team Collaboration: Able to work effectively within cross-functional teams to achieve shared goals and project objectives.
Problem-Solving: Strong analytical mindset with the ability to identify issues and implement practical, efficient solutions.
Time Management: Proven ability to manage multiple tasks, prioritize responsibilities, and meet project deadlines consistently.
Languages: Malay (Native or Bilingual Proficiency), English (Full Professional Proficiency).