

MUHAMMAD AKMAL HARITH BIN AZLAN

Bachelor of Information Technology Student



Address: Shah Alam, Selangor

Tel: +6016-328 8925

Email: muhammad_22010886@utp.edu.my

LinkedIn: [linkedin.com/in/muhammad-akmal-harith/](https://www.linkedin.com/in/muhammad-akmal-harith/)

CAREER OBJECTIVE

Motivated Bachelor of Information Technology student at Universiti Teknologi PETRONAS seeking an 8-month internship opportunity from September 2026 to April 2027. Interested in data analytics, database management, and business intelligence, with experience in Python, SQL, R, real-time data tracking, API integration, and data visualisation through academic projects. Eager to apply analytical, technical, and problem-solving skills to support data-driven decision-making in real-world industry settings.

EDUCATION

Universiti Teknologi PETRONAS, Seri Iskandar, Perak

Sep 2024 - Present

- Bachelor of Information Technology
- CGPA: 3.44
- Dean's List award for Semester 2 and 3

Universiti Teknologi PETRONAS, Seri Iskandar, Perak

Sep 2023 – Sep 2024

- Foundation in Information Technology
- CGPA: 3.76

ACADEMIC PROJECTS

Real-Time Aircraft Data Tracking System using OpenSky API

Jan 2026

A group project focused on IoT-based data acquisition system for aircraft over Perak

- Developed a **website tracking real time aircraft data** using the OpenSky Network API.
- Implemented periodic retrieval of real-time flight state vectors including ICAO24 identifier, callsign, latitude, longitude, and altitude.
- Designed and maintained data storage for multi-day historical tracking.
- Supported geospatial visualization of aircraft trajectories to enable real-time and historical flight tracking.
- **Software used:** VS Code (Python)

Library Management System Website

Jan 2025

A group project-based web development project focused on building a library management system

- Developed a **library management system website** that allows users to browse books and borrow them online.
- Designed user and admin features, including book availability management and tracking of unreturned books.
- Presented the website concept, features, and workflow effectively in a competitive environment.
- Applied problem-solving and critical thinking to develop practical and impactful solutions.
- **Software used:** AwardSpace (HTML, CSS, JavaScript)

Student Attendance Database System

Sep 2024

A group project focused on designing a structured database system to manage student attendance records in a university setting.

- Designed an **attendance database** involving students, courses, venues, schedules, and attendance records.
- Created an ER diagram, relational schema, and data dictionary to structure the database.
- Developed SQL statements for table creation, sample data insertion, and database relationships.
- Performed SQL queries to retrieve, filter, group, and analyse attendance-related data.
- **Software used:** SQL

EXTRA-CURRICULAR ACTIVITIES

Suarana: STEM Discovery – (Head of Event Management)

Jul 2025 – Apr 2026

A community engagement project focused on increasing STEM understanding at MRSM Pengkalan Hulu.

- **Planned and coordinated STEM-based activities** to create an engaging learning experience for students.
- Assisted in fundraising activities by supporting group sales efforts to raise money for the programme.
- Facilitated a group of students during the event, guiding them through activities and encouraging participation.

Celestial Delights 2026 – (Treasurer)

Mar 2026

A ramadan moreh and stargazing event organised by UTP Stellar at Masjid An-Nur

- Managed **event finances**, including **budgeting**, **cash flow tracking**, and **post-event claims**.
- Acted as a liaison between the Project Director and Media Department to coordinate communications.
- **Supervised the media department** by relaying instructions and ensuring alignment with event plans.

Pathway to Mossy Heaven – (Head of Logistics)

Feb 2026

A hiking event organised by UTP Stellar focusing on outdoor activities and student engagement

- Managed **logistics planning**, including arranging transportation and coordinating schedules.
- Handled **documentation** and ensured all necessary forms and requirements were completed.
- Coordinated with the bus driver to ensure smooth travel and navigation.

SKILLS

- **Data & Analytics:** Python, SQL, R Language, Microsoft Excel, Data Visualisation, Data Management
- **Programming Languages:** VB.NET, C++, C#, HTML, CSS, JavaScript, Lua
- **Tools & Technologies:** PyCharm, Visual Studio, VS Code, eNSP, R Studio, AwardSpace
- **Microsoft Apps:** Excel, Word, PowerPoint, Outlook
- **Languages:** Malay (Native), English (Highly proficient), Japanese (Basic)

REFERENCES

Wan Sharizan bt Wan Mamat Puzam

Programme Leader (Foundation in Technology)

University Teknologi PETRONAS

wansharizan@utp.edu.my

+60 (5)-3688195 / +60 (12)-5155219

Saipunidzam B Mahamad

Senior Lecturer (Computing)

University Teknologi PETRONAS

saipunidzam_mahamad@utp.edu.my

+60 (5)-3687408