



MUHAMMAD ERFAN HAKIMI BIN MOHD EZUWAN

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PROFILE

A Computer Science (Multimedia Computing) student from Shah Alam with hands-on experience in full-stack web development, Python automation, data analytics, and Unity C# game development. Experienced in building internal HR systems and technical support at FELDA. MBOT Certified Data Analyst seeking an internship to apply software engineering, data analytics and game development skills to practical projects.

EDUCATION

Universiti Teknologi MARA (UiTM), Shah Alam

Apr 2025 - Current

Bachelor of Computer Science (Hons.) Multimedia Computing

Current CGPA: 3.16

Universiti Teknologi MARA (UiTM), Kuala Terengganu

Oct 2022 - Mar 2025

Diploma in Computer Science

PROJECTS

Hooper Buddy: Cross-Platform Mobile Basketball Drill & Analytics App

Technologies: Flutter, Dart, SQLite, fl_chart

- Engineered and deployed a cross-platform mobile application using Flutter and Dart to help users track basketball shooting performance, log custom workout drills, and monitor progress over time.
- Architected an offline-first local database using SQLite to log relational workout data, shooting parameters, and historical user sessions without requiring an active internet connection.
- Integrated fl_chart to render interactive data dashboards, transforming raw shooting logs into visual time-series trends and accuracy percentage breakdown charts.

Color Telemetry & Visual Analytics Studio

Technologies: Python, OpenCV, Streamlit, Scikit-Learn (K-Means)

- Developed an automated video analytics web application using OpenCV and Streamlit to extract frame-by-frame color data and visual metrics from uploaded video files.
- Implemented image downsampling and K-Means clustering algorithms to extract dominant color palettes, analyze lighting shifts, and map time-series visual trends.
- Built interactive data visualization plots to display brightness variances, contrast distribution, and color telemetry metrics for video composition analysis.

Data Visualization Educational Game

Technologies: Unity 3D, C#

- Designed and developed an interactive 3D open-world educational game in Unity using C# scripting to teach players fundamental data visualization and analytical principles.
- Programmed object-oriented player mechanics, environmental interaction systems, and responsive game UI to create an immersive learning environment.
- Integrated gameplay modules where players solve puzzle mechanics by analyzing and interpreting charts, graphs, and dynamic visual datasets to complete levels.

WORK EXPERIENCE

Federal Land Development Authority (FELDA)

IT Support Intern At The Human Resource Department

Persiaran KLCC, Kuala Lumpur

Oct 2024 - Mar 2025

- Proposed and developed an Exam Management System to streamline HR examination workflows replacing manual processes and accelerating candidate evaluation turnaround times.
- Structured HR datasets and candidate records using SQL and Microsoft Excel ensuring high data accuracy, integrity, and compliance with organizational standards
- Delivered IT support across administrative hardware and software applications, diagnosing network/system glitches and logging bug reports to maintain daily operational uptime.

EXTRACURRICULAR ACTIVITIES

Inter-Faculty Sports Representative

Universiti Teknologi MARA (UiTM), Kuala Terengganu

- Participated in Futsal and Sepak Takraw Tournament during diploma as part of university extracurricular activities.

Active Member of Tahfiz Club

Universiti Teknologi MARA (UiTM), Kuala Terengganu

- Member of Plus Tahfiz Club during Diploma studies, actively participating in religious and student development activities.

ACHIEVEMENTS

- Dean's Award, UiTM Shah Alam (GPA: 3.62)
- Certified Data Analyst Approved By MBoT

SKILLS

- Language : English (Fluent), Malay (Proficient)
- Programming Languages: Python, C#, C++, Java, PHP, SQL, JavaScript, Dart
- Frameworks & Web: OpenCV, Streamlit, Scikit-Learn, Pandas, Plotly, Bootstrap, Tailwind CSS
- Data Analytics & Visualization: Power BI, Tableau, Microsoft Excel, MySQL
- Game Development & Tools: Unity, Git, GitHub, Visual Studio Code

REFERENCE

DR NORZILAH BINTI MUSA

Industrial Training Coordinator (Computer Science)

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