

# Fakhrul Fauzi

Portfolio: p1sangmas.github.io

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## EDUCATION

- Universiti Teknikal Malaysia Melaka (UTeM)** Malacca, Malaysia
  - Bachelor of Computer Engineering with Honours; CGPA: 3.50* Sep 2021 - Present
  - Courses: Data Structures and Algorithm, Artificial Intelligence, Digital Image Processing, Computer Vision and Pattern Recognition, Operating Systems, Embedded Systems, High Performance Computing*

## SKILLS SUMMARY

- Languages:** Python, Swift, C++, JavaScript, C#
- Frameworks:** Scikit, TensorFlow, Flask, Create ML, CoreML, Vision, OpenCV
- Tools:** GitHub, HuggingFace, Canva, Google Sites, ChatGPT
- Platforms:** NodeJS, Linux, Windows, macOS
- Soft Skills:** Teamwork, Problem-Solving, Adaptability, Time Management

## EXPERIENCE

- SMK Electronics (M) Sdn Bhd** On-site
  - Engineer Intern (Internship)* Jul 2024 - Sep 2024
    - Barcode Checker System:** Developed a software tool to enhance production's quality control.
    - Vision System Enhancement:** Led a project to improve LCD Vision Inspection Checker machine.
    - Production Engineering Support:** Assisted engineers in troubleshooting and maintaining production equipment.
- MFH Dagang Resources Sdn. Bhd.** Remote
  - Content Creator / Digital Manager (Freelance)* Jan 2025 - Present
    - Social Media Content Creation:** Designed promotional campaigns for an event space to boost brand visibility and client engagement.
    - Website Development & Digital Branding:** Built and maintained a professional, user-friendly website to showcase event space offerings.
    - Client Inquiry Management:** Acted as the primary point of contact for client inquiries.

## PROJECTS

- smAirtColorizer - Image/video colorization using deep learning (Image Processing, Deep Learning, Mobile App Development):** (Work in progress) An iOS application for image and video colorization that leverages deep learning to transform historical grayscale media into vibrant, colorized outputs. Tech: Python, Swift, Flask, TensorFlow (November '24)
- QuranicJar - Quranic verses recommendation using NLP (Natural Language Processing, Mobile App Development):** An iOS app that predicts emotions using NLP natively from user input and provides relevant Quranic verses for guidance. Tech: Swift, CoreML, Create ML (March '25)
- RasaRadar - Malaysian foods classification (Computer Vision, Machine Learning, Mobile App Development):** (Work in Progress) An iOS application that helps users discover and classify Malaysian foods using CoreML and Vision frameworks. Tech: Swift, CoreML, Create ML (March '25)
- STM32 AI - AI integration on embedded systems (Embedded Systems, Machine Learning):** Integration of advanced AI models with resource-constrained and low-powered embedded systems for real-time image recognition. Tech: Teachable Machine, STM32Cube (April '24)
- Laman Sufi Official Website (Web Development):** An event space website that enables clients to explore, and book packages with real-time availability tracking. Tech: Google Sites (Jan '25)

## HONORS AND AWARDS

- Bronze Medal at UTeM's Innovation & Technology Competition, INOTEK (Series II) - June, 2024
- Dean's List for 4 consecutive semesters at Faculty of Electronics & Computer Engineering UTeM - Jan, 2024
- 3-Stars Distinguished (Icon) on UTeM's TUAH Index - April, 2025

## VOLUNTEER EXPERIENCE

- Student Volunteer in University for Society (SULAM) programme** Malacca, Malaysia
  - Conducted on-site interactive session on IoT & sustainable technology impacting over 200 students.* June 2024