SHAHRUL AMIN

Software Engineer

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Seri Kembangan, Selangor, Malaysia

SUMMARY

Software Engineer with experience in full-stack development and applied machine learning. Skilled in building web and mobile applications using React and Flutter, and integrating ML models into real-world systems. Strong background in computer vision and incremental learning, complemented by practical engineering skills.

WORK EXPERIENCE

Domain Adaptation & Transfer Learning Researcher (Internship)   **Aug 2025 – Oct 2025**

National Science and Technology Council, Taiwan

- Developed a saliency-guided domain adaptation framework to enhance object detection accuracy in aerial imagery.
- Leveraged Grad-CAM saliency mapping and dynamic confidence thresholding to improve model transferability across diverse UAV datasets.
- Optimized pseudo-label quality and attention alignment, resulting in superior cross-domain detection performance.

UX/UI Design Lead   **Nov 2024 – Jul 2025**

Google Developer Groups UPM

- Led the end-to-end design and prototyping of the Google Developer Groups on Campus UPM website using Figma.
- Organized and conducted a Figma workshop for students from five universities, focusing on design principles and prototyping.
- Collaborated with an industry UI designer to host a workshop on professional UI/UX design workflows and best practices.

Incremental Learning & UAV Vision Researcher (Internship)   **Aug 2024 – Oct 2024**

National Science and Technology Council, Taiwan

- Engineered object detection models for UAV imagery using datasets including PASCAL VOC, DOTA, and VisDrone.
- Implemented incremental learning techniques such as knowledge distillation and memory replay to improve model adaptability for lifelong learning scenarios.
- Fine-tuned custom models to address challenges in real-world data variability and computational efficiency.

EDUCATION

Bachelor of Software Engineering (Hons)
Universiti Putra Malaysia
Oct 2022 – Present
CGPA: 3.66

Foundation in Electrical and Electronic Engineering
Kolej Matrikulasi Kejuruteraan Kedah
Jul 2021 – May 2022
CGPA: 4.00

LANGUAGE

Malay ●●●●●
English ●●●●●
Pashto ●●●●○
Chinese ●●○○○

SKILLS

Programming Languages: Python, Java, Dart, JavaScript
Frameworks & Libraries: TensorFlow, PyTorch, Flutter, ReactJs, Flask, Laravel
Tools & Platforms: Figma, Git, Docker, VSCode

REFERENCES

Prof. Madya Dr. Noraini Che Pa
Professor Madya
Universiti Putra Malaysia
010123456789

Qazi Mazhar Ul Haq
Assistant Professor
Yuan Ze University
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