Elaine Fu

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Experience

Sunway Digital Hub, Digital Technology Solutions & Group Cybersecurity   Subang Jaya, Selangor
Artificial Intelligence / Machine Learning Intern   Aug 2024 – Feb 2025

- Developed end-to-end pipeline for a web application with interactive analytics dashboard using Django, Django REST, MongoDB & Svelte to analyze daily & hourly traffic level with real-time data visualizations and charts, integrating RTSP streaming pipeline from a CCTV using Fast API, OpenCV and YOLO (neural network) for vehicle counting (object tracking) and vehicle types detection.
- Developed & deployed end-to-end pipeline for a web application with real-time alerting (sound & pop out notification) when unauthorized car park exit occurs using Django, Django REST, WebSocket, MongoDB & Svelte, integrating a RTSP streaming pipeline from a CCTV for object detection & license plate recognition using Fast API, OpenCV, YOLO, and PaddleOCR.
- Engaged with a prospect client for on-site proof of concept (POC) about cable theft use case.

Education

University of Malaya   Wilayah Persekutuan, Kuala Lumpur
Bachelor of Computer Science (Artificial Intelligence). CGPA 3.15   Graduation: Feb 2025
Relevant Coursework: Machine Learning, Neural Network, Natural Language Processing, Algorithm Design & Analysis, Computer Vision, Data Structure, Software Modelling, Database
Skills: Python (3yr), Java (3yr), SQL, Javascript, HTML, CSS

Hackathon Experience
Cognizant Malaysia 2023
First Runner Up in Cognizant VWork
- Developed web application prototype for youth programmes recommendation based on their skills, experience, and personality using generative AI algorithms, for the use case for National Youth Council (NYC).
- Researched and proposed generative AI algorithms and identified ways to mitigate ethical issues in data collection.

Sime Darby Plantation 2020
Second Runner Up in Palm Game Jam
- Developed a web game prototype that creates awareness about sustainability in the Palm Oil industry by implementing fun and interactive elements using Javascript and HTML.

Project Experience
Sentiment Prediction Application
Final Year Individual Project 2024
- Developed machine learning models like Random Forest, Logistic Regression and more using Python, Scikit-learn, NLTK, Matplotlib & Streamlit to develop a sentiment prediction application for student reviews for every course subject, collaborating with the administrative of faculty of computer science in University of Malaya.

Chatbot Application
Academic Course Group Project 2024
- Developed a chatbot for clinical pharmacists that provides suggestions based on patients' condition, explaining about drug interaction and its side effects using LangChain, RAG & OpenAI.

Skills & Interests

Technical: Python, Java, Javascript, Machine Learning, Deep Learning, Generative AI, Computer Vision, CUDA, Google Cloud, Docker, Kafka, Django, Fast API, SQL, Redis, Ubuntu
Skills: Analytical, Teamwork, Communication, Problem Solving
Language: English (fluent), Mandarin (fluent), Malay (Intermediate), Cantonese (Basic)
Interests: Artificial Intelligence, Machine Learning, Hiking, Reading