

James Wong Chai Fuu

Full Stack Software Developer | ML/DL Enthusiast

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Summary

[cite_start]Full-stack developer and aspiring data scientist with a passion for leveraging technology to tackle complex problems[cite: 9].

[cite_start]Proficient in Python, SQL, and JavaScript, with experience in machine learning, data analysis, and web development[cite: 10].

[cite_start]Eager to apply analytical mindset and technical skills to drive innovation and deliver impactful solutions[cite: 11].

Experience

Internship - AI Research, International Medical University (IMU) – Kuala Lumpur, Malaysia 2024

- [cite_start]Conduct study & research on AI in Digital Pathology/Healthcare[cite: 30].
- [cite_start]Contribute to scanning of slides, programming, annotation, and development of AI tools for Digital Pathology[cite: 30].

Internship - IT Operations & Infrastructure, Hilti Asia IT Services – Malaysia 2024

- [cite_start]Gained hands-on experience in IT operations by managing Atomic tickets to create automation solutions[cite: 34].
- [cite_start]Developed a log parser to process logs generated by AE, enabling efficient data handling and visualization through graph plotting[cite: 35].
- [cite_start]Built internal automation tools using Microsoft technologies to enhance productivity and streamline workflows[cite: 36].

Intern / Event Helper, LiFull Tech Malaysia – Malaysia 2023

- [cite_start]Facilitated clear communication and talent alignment for LiFull Tech Malaysia at the Japan Job Fair[cite: 39, 40].
- [cite_start]Efficiently matched candidate skills with company preferences for successful talent acquisition[cite: 41].

Education

Asia Pacific University (APU), in BSc Computer Science (Artificial Intelligence) 2022

- [cite_start]Focus on AI, Machine Learning, and Software Development[cite: 17].

Universiti Tunku Abdul Rahman (UTAR), in Foundation in Engineering 2020

- [cite_start]Engineering fundamentals[cite: 20].

Projects

Drawy (In-Progress)

2025

- [cite_start]Intelligent Drawing Canvas accessible web-based with handwriting recognition[cite: 166, 168].
- [cite_start]Implements a grouping algorithm to cluster strokes into "words" for better accuracy[cite: 169].
 - [cite_start]Features real-time learning of handwriting styles, automatically adjusting incorrect words with similar handwriting strokes[cite: 170].
 - [cite_start]Built as a web-based application for anytime access[cite: 168].

Foodie-U

2023

- [cite_start]Food Ordering System[cite: 154].

- [cite_start]Designed system architecture including database schema and API patterns (DAO in Java)[cite: 155].
- [cite_start]Designed file management system integrating with database to track file metadata[cite: 156].

Self Hosting Services

2023

- [cite_start]End-to-end architecture for managing self-hosted services[cite: 144].

- [cite_start]Utilized Docker for server virtualization and Traefik as proxy manager[cite: 145].
- [cite_start]Protected the server with CrowdSec and configured DNS/CDN with Cloudflare[cite: 145, 146].
- [cite_start]Setup secure networking with VPN access availability[cite: 146].

Chrysie

2023

- [cite_start]Multilingual, domain-focused chatbot[cite: 136].

- [cite_start]Utilized centralized vector database (knowledge base) to empower the chatbot[cite: 139].
- [cite_start]Integrated popular LLMs for natural responses[cite: 140].

Personal Portfolio

2022

- [cite_start]Personal website serving as a central platform[cite: 133].

- [cite_start]Implemented Spotify API to display current listening status[cite: 134].
- [cite_start]Deployed at jameswong.tech[cite: 5].

Crowdstage

2021

- [cite_start]Freelancing platform for showcasing work and hiring[cite: 125, 127].

- [cite_start]Leveraged MVC Architecture with Laravel (backend) and VueJS (frontend)[cite: 128].
- [cite_start]Involved in database modeling, routing, API design, and middleware implementation[cite: 129].

Honors and Awards

Top 8 Finalist - Hilti IT Competition 2024: [cite_start]Developed "Jarvis," an AI-powered recruitment platform with multi-round selection and flexible weightage scoring[cite: 76, 78, 81].

Best Inventor & Gold Award - ITEX 2024 @ MYIE: [cite_start]Upgraded "Wayang Wayang" to 2.0 with a new card matching game for Wayang Kulit characters[cite: 82, 83, 85].

Gold Award - Malaysia Tech Expo (MTE) 2024: [cite_start]Developed "Wayang Wayang 1.0," an educational system integrating AR museum, chatbot, and static website using NextJS[cite: 87, 88, 90].

Top 8 Finalist - DevHack 2023: [cite_start]Developed a lie detector system using TensorFlow and Mediapipe to elevate talent acquisition[cite: 93, 95].

Gold Award - IUCEL 2023: [cite_start]Developed a multilingual, domain-focused chatbot on Wayang Kulit using vector databases[cite: 98, 100].

Skills

Languages: [cite_start]Python, JavaScript/TypeScript, Java, C++/C, PHP, SQL, HTML, CSS[cite: 28, 29, 67, 68].

AI & Machine Learning: [cite_start]Computer Vision, NLP (LLMs), TensorFlow, Mediapipe, Vector Databases[cite: 26, 27, 95, 100].

Web Development: [cite_start]React, Vue.js, Next.js, Laravel, Tailwind CSS[cite: 90, 128].

Infrastructure & DevOps: [cite_start]Docker, Traefik, Cloudflare, VPN/Networking, CrowdSec[cite: 24, 145, 146].

Concepts: [cite_start]MVC Architecture, Database Design, API Design, Relational Databases[cite: 25, 128, 155].