YAP ZHAN HONG

Software Development Student | Backend Developer
Phone: +60166620589
Email: B032310386@student.utem.edu.my
GitHub: github.com/Luoye0323

PROFESSIONAL SUMMARY

Software Development student at Universiti Teknikal Malaysia Melaka (UTeM) specializing in backend development, AI systems, and software quality assurance. Proven experience in building scalable backend architectures, implementing artificial intelligence solutions, and ensuring software reliability through comprehensive testing methodologies. Strong foundation in distributed systems, database design, and modern development frameworks.

EDUCATION

Bachelor of Computer Science (Software Development)

Universiti Teknikal Malaysia Melaka (UTeM) | 2023 - Present

Relevant Coursework:

- Software Requirements & Design
- Software Validation & Verification
- Artificial Intelligence
- Data Communication & Networking
- Distributed Systems
- Database Systems

TECHNICAL SKILLS

Programming Languages:

Java, Python, JavaScript, SQL

Frameworks & Tools:

Spring Boot, Firebase, Flask, Git & GitHub, Android Studio, Kotlin

Databases:

MySQL, Firebase Realtime Database, Firebase Firestore, Database Design & Modeling

Design & Testing:

Figma, JMeter, Test Case Design, Software V&V Methodologies

AI & Machine Learning:

CNN Models, Expert Systems, TensorFlow/Keras

System Design:

Distributed Systems, REST APIs, Microservices, System Architecture, IEEE SRS Documentation

PROJECTS

PineAForm - Intelligent Pineapple Production & Market Linkage System

System Architect & Developer | 2025

Technologies: Android Studio, Kotlin, Firebase Firestore, Firebase Auth, Repository Pattern

- Developed native Android application with intelligent production coordinator to prevent market oversupply
- Implemented real-time yield conflict detection system aggregating regional harvest data
- Built group chat synchronization with dynamic announcement feed for farmer coordination
- Designed interactive production planner with comprehensive business profiling
- Aligned with SDG 1 (No Poverty), SDG 2 (Zero Hunger), SDG 8 (Decent Work), and SDG 12 (Responsible Consumption)

HRMS for Tuition Centre

Backend Developer | 2024

Technologies: Spring Boot, MySQL, Java, REST API, IEEE SRS

- Developed web-based HR management system with attendance tracking and payroll automation
- Designed and implemented MySQL database schema for employee and attendance management
- Created REST APIs for admin dashboard interface
- Documented system requirements using IEEE SRS standards

Mushroom Expert System

AI Developer | 2024

Technologies: Python, TensorFlow, CNN, Expert Systems, Flask

- Built intelligent system combining rule-based expert system with CNN for mushroom identification
- Implemented rule-based inference engine for toxicity assessment and safety recommendations
- Developed CNN image classification model for species recognition
- Created web interface using Flask for user interaction

MyTherapy Mobile App Validation & Verification

Tester & Analyst | 2024

Technologies: JMeter, Test Cases, Bug Reports, V&V Methodologies

- Conducted comprehensive testing of healthcare mobile application using various V&V methodologies
- Performed performance testing with JMeter to assess system scalability
- Created detailed test case documentation and bug reports
- Ensured healthcare software quality through systematic testing approaches

PROFESSIONAL QUALITIES

Personal Attributes:

- Responsible - Accountable and reliable in project delivery
- Analytical Thinker - Strong problem-solving capabilities
- Fast Learner - Quick adaptation to new technologies
- Team Player - Collaborative in team environments

Professional Skills:

- Communication - Clear technical and stakeholder communication

- Problem Solving - Systematic approach to complex challenges
- Documentation - Professional technical writing
- Time Management - Efficient project planning and execution

AVAILABILITY

Currently seeking opportunities in Backend Development, Software Engineering, AI & Machine Learning, and System Design roles.
Status: Available Immediately