

ĐỖ PHAN TUẤN ĐẠT

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SUMMARY

Detail-oriented tester with experience in software design, software testing, data science and digital illustration. Proven track record excellent time management and work efficiency, with or without AI assistance. Strong organizational skills coupled with sufficient communication abilities and high English proficiency to coordinate activities and facilitate smooth workflow within an international environment.

EDUCATION

Bachelor of Science

Sept 2022 - Now at final year

VNUHCM - University of Science, Ho Chi Minh City, VN

- Major in Information Technology.
 - Final GPA: 3.37/4.0
 - Coursework: Data Structures & Algorithms, Object-Oriented Programming, Software Engineering, Software Testing, UI Design, Machine Learning, Statistical Learning, Data Science, Mining of Massive Datasets, Intelligent Data Analysis
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TECHNICAL PROJECTS

Fact-checking System

Jan - March 2026

Aa multi-stage fact-checking agent using LangGraph and DeepSeek API, modeled after the Loki pipeline (Decomposition, Check-worthiness, Query Generation, Claim Verification, and Verdict). The system automates claim validation by orchestrating the 5-step workflow, utilizing the Google Serper API for real-time evidence retrieval and a Streamlit frontend to visualize claim breakdowns and final verdicts.

Role 1: Prompt Engineer

- Optimized prompts of each step to ensure consistent response quality with correct formatting, while minimizing response time.

Role 2: Manual QA Tester

- Ensured the decomposition step returned atomic claims that are individually verifiable.
- Manually audited the Serper API search results to ensure the gathered evidence was contextually relevant to the specific atomic claims generated during the decomposition phase.
- Measured total time from input submission to result display to look for when it takes uncomfortably long, in which case there should be indicator that the system is still running.

Diabetes Chatbot Agent

Oct - Dec 2025

An end-to-end healthcare analytics platform using XGBoost to predict diabetes risk based on BRFSS datasets. The system includes a Streamlit dashboard for dynamic data visualization, a Flask backend for multi-year data processing, and a Google Gemini-powered AI consultant with MongoDB for persistent chat history.

Role 1: AI Engineer

- Collected, cleaned and preprocessed 5 years of BRFSS datasets.
- Trained predictive model for predicting people's risk of diabetes.

Role 2: QA Tester

- Conducted automated, data-driven verification of risk prediction outputs against a range of demographic test cases to ensure the model returned logically consistent results for high-risk vs. low-risk profiles.
- Manually executed negative testing on data input forms to confirm the system gracefully handled missing or invalid health data with user-friendly error messages.

AI Quiz Generator

Mar - May 2025

Flask-based web application that leverages the Google Gemini API to transform uploaded PDF documents into interactive, AI-generated quizzes. Features a robust Python processing pipeline for text extraction.

Role 1: Backend Developer

- Implemented simple paragraph-based chunking of extracted data from PDF documents.

Role 2: Manual QA Tester

- Evaluated the relevance and factual accuracy of AI-generated questions against the source PDF content, identifying instances of "hallucinations" or context misalignment.
- Tested the PDF upload pipeline, including edge cases such as password-protected files, massive documents to ensure stable text extraction.

MelodyHub - Music platform

Dec 2024 - Feb 2025

Full-stack music streaming application built with Node.js, React, and MongoDB. Features dual-role functionality for Artists and Listeners, including a custom dashboard for media management, real-time playback controls, and a simple recommendation system.

Role 1: Developer

- Created simple login/signup forms and handle basic authentication.
- Implemented music playback and control features.

Role 2: Manual QA Tester

- Conducted comprehensive manual testing of the Artist and Listener workflows, ensuring accuracy in authentication, song uploads, and playback controls.

KEY SKILLS

Programming Languages: Python, Javascript, Typescript

Programming Frameworks/Tools: React, NodeJS, Flask, Bootstrap, Playwright, Apache Jmeter, Postman, GitHub

Digital Design Tools: Figma, Clip Studio Paint

Languages:

- Vietnamese (native speaker)
- English (fluent, 8.0 IELTS, participated in national proficiency competitions)
- Japanese (beginner)