Nguyễn Thanh Hùng

0942-452-146 | hn293773@gmail.com | Github

Skills

- JavaScript | C++ | Python | MongoDB | PostgreSQL | Node.js | Express | React.js | Git
- Docker | OOP | Three.js
- Frontend | Backend | English

Education

Bachelor of Computer Science — **University of Information Technology** — *UIT, VNUHCM* **09/2022 - Now**

- GPA: 8.2/10

Projects

- **RAG-Chatbot**
  - Building a RAG chatbot for answering questions with PDF, Docx file. This RAG features in store chat history of conversation by configuring the prompt for RAG chain.
  - Technology: Langchain, React JS, MongoDB and FastAPI
  - Link: https://github.com/nth4002/RAG-Chatbot-App-Project
- **Implement Transformer architecture:**
  - Implementing the transformer architecture in the paper “Attention is all you need” from scratch. Creating the notebook covering data loading (Multi30k dataset), vocabulary creation, model training, and inference for a German-to-English translation task.
  - Technology: Python, Pytorch framework
  - Link: https://github.com/nth4002/Transformer-Architecture-Implementation
- **Building MLOps system for sentiment analysis problem**
  - Building a complete MLOps system for training, tracking data, metrics, and models experiment, monitoring the model, CPU usage and log system for Sentiment Analysis problem. This project utilizes DVC to track data version, using the “great expectation” package to validate the data, and using MlFlow to track the metrics and models, and monitoring the model with Prometheus and Grafana.
  - Technology: DVC, MinIO, DVC, MlFLow, docker, ngrok, prometheus and grafana
  - Link: https://github.com/PTD504/MLOps-getting-started
- **Building a data pipeline for MOOCCubeX dataset**
  - Building a website for showing data lifecycle for a project: “Predict the pass or fail possibility of students for each course based on information from MOOCCubex Dataset”. This project show the workflow of data pipeline from EDA to process data by dealing with missing values and wrong values to data merging to extract useful information and prepare it for model training
  - Technology: Python, Pandas, Polars, node js, react js, postgresql
  - Link backend repo: https://github.com/nth4002/DataMining-API
  - Link frontend repo: https://github.com/nth4002/DataMining
- **Building a 3d Website for Car Showroom**
  - Build a 3D Car Showroom website to show the interactive website where users can explore the showroom with car models, interact with the car model and experience driving those cars.
  - Technology: HTML, CSS and Javascript
  - Link: https://github.com/PhucNg2k/ThreeJS

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Others

- **Bronze Award**: Won 3th-place for the development of history website at WebDev Adventure 2025 **(05/2025)**
- **Certificate of Attending in the Final round of AI challenge HCM 2025 (10/2024)**
- **Publish a research paper at SOICT 2024:** MMMSVR: An Advanced Video Retrieval and Question Answering System