

NGUYEN DUONG THANH DU

+84 886 617 378  [Github](#)  [Linkedin](#)  [Google Cloud Profile](#)  [Email](#)

EDUCATION

IUH - Industrial University of Ho Chi Minh City

10/2020 - 04/2025 (Expected)

Bachelor Dergree in Computer Science Programs.

GPA: 3.62/4.00

TECHNICAL SKILLS

Programming Languages: Python

Libraries and Tools: PyTorch, Tensorflow, Sklearn, Pandas, Numpy, OpenCV

ML Architectures: CNN, RNN (Regions), Fast-RCNN, Faster-RCNN, Transformers(BERT)

LLMs Libraries: LlamaIndex, LangChain, Guidance

Other: Git, Docker, FastAPI, AWS, Google Cloud (Vertex AI)

WORK EXPERIENCE

AI Engineer

BlueBolt Software, Ho Chi Minh City, VietNam

05/2023 - 04/2024

- * Built **dashboards** for analyzing company data, tracking performance, and providing evaluative insights to enhance efficiency and productivity. Created visually impactful reports to **highlight data insights** and improve data visualization capabilities.
- * Deployed **Odoo Community (ERP)** system on **AWS**, managing related servers hosting Odoo on the AWS platform. Developed **automated scripts** for monthly backup of Odoo database. **Managed and maintained** operational processes of Odoo.
- * Developed a **Retrieval Augmented Generation (RAG) Chatbot** using large language models to assist users with **medical health** inquiries by crawling and processing medical data from Vinmec, building a **vector database** stored in PostgreSQL (pgvector), and implementing a RAG pipeline with **ChatGPT 3.5** as the language model.
- * **Enhanced the RAG pipeline** with advanced techniques such as re-ranking, chain of thought prompting, and hybrid search to improve the chatbot's performance and accuracy in retrieving and generating relevant medical information.
- * **Deployed the entire RAG** Chatbot pipeline to production, enabling users to interact with the chatbot and receive assistance for their medical health-related questions and information needs.
- * Configured a Jetson Nano embedded AI platform for **face detection** tasks, including loading and **optimizing pre-trained face detection** models onto the Jetson Nano's GPU for efficient **real-time** facial recognition and analysis.

PROJECTS

Medical Document Retrieval Chatbot

Demo

- * Built a Retrieval Augmented Generation (RAG) chatbot utilizing Llama-Index, PostgreSQL vector database, and GPT-3.5 for medical document retrieval.
- * Implemented data embedding, indexing, and advanced text retrieval techniques like keyword search, semantic similarity, and context-awareness.
- * Developed in Python 3.10 using Llama-Index, PostgreSQL vectors database, and OpenAI GPT-3.5.

K-means Parallel

Demo

- * Developed parallel K-means clustering using Map-Reduce on Hadoop with Python.
- * Leveraged Hadoop for distributed computing and parallelization of the K-means clustering algorithm across a cluster.
- * Provided data generation, implementation execution, and result comparison instructions.

ACHIEVEMENTS AND EXTRACURRICULAR ACTIVITIES

Term-based scholarship at IUH - Industrial University of Ho Chi Minh City

2020 - 2024

Certificate Google Data Analytics Specialization at Coursera

7/2023

QuanQuanGCP for learning Google Cloud Skill

3/2024