

Nguyen Quoc Khanh

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Education

University of Information Technology - VNUHCM

Bachelor of Science in Information System (GPA: 3.2 / 4.00)

June 2020 - Jun 2024

Ho Chi Minh, Viet Nam

- **Relevant Awards:** Merit scholarships for outstanding academic performance in two semesters and a full-tuition scholarship for exceptional academic achievement in one semester.

Tay Nguyen Ethnic Boarding High School

Major Subject in Physical (GPA: 3.5 / 4.00)

2017 - 2020

Dak Lak, Viet Nam

- **Relevant Awards:** Gold Medal in Physics Olympic 10-3 (2017), Gold Medal in Physics Olympic 10-3 (2018)

Experience

THINKPROMPT CO., LTD

Data Scientist Junior

Agile, MLOps, AWS EC2, MinIO, Docker, FastAPI, TensorFlow, PostgreSQL, Scraping

Jul 2023 - Apr 2024

- Worked as an AI Engineer and Data Scientist at ThinkPrompt Company, primarily focused on spearheading the development and deployment of machine learning models in natural language processing and computer vision..
- Collaborated with cross-functional teams, including Data Scientists and Software Developers, to integrate AI capabilities into existing systems, ensuring seamless functionality and scalability.
- Conducted rigorous data analysis and model validation using state-of-the-art algorithms and frameworks to ensure the highest level of accuracy and reliability in AI-driven solutions.

MAICO Group

AI Engineer Intern

May 2022 - August 2022

City, State

- Interned as an AI Engineer at MAICO Group, primarily focused on recommendation system development.
- Contributed to the development and enhancement of recommendation systems within the company's technological ecosystem.

Vietnam Olympiad in Informatics (VNOI)

Algorithmic Problem Setter

Jul 2020 - Dec 2022

City, State

- Designed and tested algorithmic problems for competitive programming competitions. Conducted beta testing, considered time complexity, and provided sample input/output.
- Collaborated with other designers, generated test data, and continuously improved the competition process.

Projects

Doctranslate.io | Company Project | LangChain, OpenAPI

- Contributed to the development of Doctranslate.io, an AI-powered document translation platform focused on translation accuracy and operational efficiency.
- Served as an AI Engineer and Data Scientist, focusing on the development, training, and fine-tuning of advanced translation models. Enhanced efficiency and scalability through automated translation and optimized request handling

Ventus - Horse Racing Betting | Company Project | Agile, MLOps, AWS EC2, MinIO, Docker, FastAPI, TensorFlow, PostgreSQL

- Spearheaded the development of a data-driven horse racing betting system using Agile and MLOps frameworks, integrating real-time data acquisition via web scraping and APIs, and deploying predictive models with TensorFlow on AWS EC2.
- Orchestrated a multi-faceted deployment architecture incorporating FastAPI, Docker, PostgreSQL, and MinIO to deliver scalable betting services, automated result dissemination through web and email interfaces, and robust data management.
- Continuously refined predictive algorithms and managed a dynamic betting interface, enhancing model accuracy and user engagement, which significantly boosted profitability and provided comprehensive performance reporting to stakeholders.

Advanced Driver Assistance Systems | Personal Project | *Deep Learning, Image Processing, Yolo, ADAS, TenssoRT*

- Developed an Advanced Driver Assistance System (ADAS) using Python and OpenCV, implementing features such as Lane Departure Warning System (LDWS), Lane Keeping Assist System (LKAS), and Forward Collision Warning System (FCWS) to enhance vehicle safety.
- Engineered computer vision algorithms to accurately detect and track lane markers in real-time, utilizing edge detection and optical flow techniques, significantly improving driving decision support under varying environmental conditions.

Sign Language Translation | Graduation Thesis | *TypeScript, HumanGAN, LLM, Skeleton Viewer, Mobile/Web*

- Developed a real-time sign language translation solution with multi-language support, leveraging cutting-edge machine learning for accurate sign-to-text and text-to-sign conversions.
- Enhanced user interaction through an intuitive interface for both desktop and mobile, enabling speech-to-text, text normalization, and internationalization across 107 languages.
- Innovated with 3D avatar animations and Human GAN technology for realistic sign language visualization, complete with video output features for sharing and accessibility.

Technical Skills

Languages: C/C++, Java, JS, C#, Python, R

Technologies: Flask, ASP.NET, Pytorch, Tensorflow, Hugging Face, OpenAI

Concepts: Generative AI, Large Language Model (LLM), Artificial Intelligence, Machine Learning, Neural Networks, API, Agile Methodology, Cloud Computing

Others: TOEIC: RL 750/990, SW (300/400)

Certificates

TensorFlow Developer Professional Certificate

2023

DeepLearning.AI

TensorFlow 2.x, Machine Learning, Deep Learning

Data Science Professional Certificate

2023

IBM

Data Analysis Software, Computer Programming, SQL, Probability & Statistics

Applied AI Professional Certificate

2023

IBM

Generative AI, Flask, Applied AI, Software Architecture

AI Engineering Professional Certificate

2023

IBM

Apache Spark, SciPy, Keras, Pytorch, TensorFlow, Big Data

IT Project Manager Professional Certificate

2023

IBM

Leadership and Management, Project Management, Communication

Machine Learning Professional Certificate

2023

IBM

Machine Learning Algorithms, Probability & Statistics, KNN, PCA

Project Management: Professional Certificate

2023

Google

Entrepreneurship, Scrum, Risk & Budget Management, Influencing

IT Automation with Python Professional Certificate

2023

Google

Automation, Version Control, Manage IT Resources, Problem Solving