

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 Minority Boarding 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), Silver Medal in Physics Olympic 10-3 (2018)

Experience

Vingroup AI Engineer Training Program - VinBigData

AI Engineer

July 2024 – May 2025

Mathematics, ML/DL/CV/NLP, AI Ethics, MLOps, Data Engineering

- **Participated in the Vingroup AI Engineer Training Program as an AI Engineer**, a comprehensive 10-month course focused on building high-quality AI engineers with practical problem-solving skills to meet the technological resource needs of the Vingroup ecosystem.
- **Completed extensive training in key AI and data science areas**, including foundational and advanced machine learning, computer vision, natural language processing, AI ethics, linear algebra, probability, and statistics.
- **Gained hands-on experience in real-world projects** during the second phase of the program, working in professional environments on large-scale technology projects either in Hanoi or Ho Chi Minh City.

THINKPROMPT CO., LTD

Data Scientist Junior

Jul 2023 – Now

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

- **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.

Project

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

- 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 | *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 | *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 Skill

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 (270/400), Typing Speed: 100 WPM

Manuscript

Optimizing Horse Racing Predictions through Ensemble Learning and Automated Betting Systems 10/2024
Nguyen Quoc Khanh, Nguyen Phuoc Sang, Tran Thi My Quyen, Tran Vu Anh
Computer Vision for Safety Management: A Case Study in the Construction Industry 10/2024
Nguyen Quoc Khanh

Certificate

TensorFlow Developer Professional Certificate	2023
<i>DeepLearning.AI</i>	<i>TensorFlow 2.x, Machine Learning, Deep Learning</i>
Generative Adversarial Networks (GANs) Specialization	2024
<i>DeepLearning.AI</i>	<i>GANs, DCGANs, Pix2Pix, CycleGAN, StyleGAN, FID, PyTorch</i>
Data Science Professional Certificate	2023
<i>IBM</i>	<i>Data Analysis Software, Computer Programming, SQL, Probability & Statistics</i>
AI Engineering Professional Certificate	2023
<i>IBM</i>	<i>Apache Spark, SciPy, Keras, Pytorch, TensorFlow, Big Data</i>
Machine Learning Professional Certificate	2023
<i>IBM</i>	<i>Machine Learning Algorithms, Probability & Statistics, KNN, PCA</i>
Project Management: Professional Certificate	2023
<i>Google</i>	<i>Entrepreneurship, Scrum, Risk & Budget Management, Influencing</i>
IT Automation with Python Professional Certificate	2023
<i>Google</i>	<i>Automation, Version Control, Manage IT Resources, Problem Solving</i>