Nguyen Quoc Khanh

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Education

University of Information Technology - VNUHCM

June 2020 - Jun 2024

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

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

2017 - 2020

Major Subject in Physical (GPA: 3.5 / 4.00)

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

July 2024 - May 2025

Al Engineer

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 Al 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

Jul 2023 - Now

Team leader - Data Scientist Junior

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 Al 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 Al-driven solutions.

MAICO Group

May 2022 - August 2022

AI Engineer Intern

Recommendation system on real estate system

- 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)

Jult 2020 - Dec 2022

Algorithmic Problem Setter

Algorithms, Tester, Problem Setter

- 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, OpenAl **Others**: TOEIC: RL 750/990, SW (270/400), Typing Speed: 100 WPM

Manuscript

The Ethics of Advanced Driver-Assistance System Based Computer Vision	11/2024
Nguyen Quoc Khanh, Nguyen Hoang Trung, Nguyen Trong Hoang, Duong Thi An, Dam Van Hien, Vo Ngoc Bich Uyen	
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

Jer tincate	
TensorFlow Developer Professional Certification	cate 2023
DeepLearning.AI	TensorFlow 2.x, Machine Learning, Deep Learning
Generative Adversarial Networks (GANs) S	Specialization 2024
DeepLearning.AI	GANs, DCGANs, Pix2Pix, CycleGAN, StyleGAN, FID, PyTorch
Data Science Professional Certificate	2023
IBM	Data Analysis Software, Computer Programming, SQL, Probability & Statistics
Al Engineering Professional Certificate	2023
IBM	Apache Spark, SciPy, Keras, Pytorch, TensorFlow, Big Data
Machine Learning Professional Certificate 20	
IBM	Machine Learning Algorithms, Probability & Statistics, KNN, PCA
Project Management: Professional Certificate	
Google	Entrepreneurship, Scrum, Risk & Budget Management, Influencing

IT Automation with Python Professional Certificate

2023

Google Automation, Version Control, Manage IT Resources, Problem Solving