CURRICULUM VITAE

Position:				
Personal	Name: Nguyen Tuan Anh	Date of birth: Nov 02, 1981		
information			96	
	Professional qualifications:			
	Phd Communications and Information technology			
	Master Computer Science		and !	
Current job	urrent job Employer:			
	Company: FUYU PRECISION COMPONENT CO., LTD.			
	Address: Lot M1 and Lot F, Quang Chau Industrial Park, Van Trung Commune, Viet Yen			
	District, Bac Giang Province, Vietnam			
	Position: Al Leader / Manager	Years with present Employer: 3	3	

Here are some key highlights:

Academic Foundation and Teaching Experience

- Ph.D. in Communications and Information Technology
- Master's degree in computer science
- Lecturer at Thai Nguyen University of Technology
- Published 11 research papers in Speech Recognition and Deep Learning

Al and Computer Vision Project Implementation

- Over 3 years as AI Leader, leading AI projects for a global smart factory.
- Lots of experience in applying AI in identifying product appearance errors.
- Directly code most work-related projects to ensure program stability, accuracy and streamlining.
- R&D experience in fingerprint recognition, object detection, face, and voice recognition.
- Implemented AI system for candidate-job matching on a professional recruitment platform.
- Developed multilingual video dubbing application using STT and TTS technologies.

Programming Skills and Project Management

- Proficient in Python, C++, Flask, and various software development tools
- Experience with Git, Docker, and modern software development practices.
- Led teams, assigned tasks, integrated AI projects.
- System design, main coding responsibilities, project documentation

Al Applications for Data Analysis and Decision Support

- Deployed Lean Learning Machine (LLM) system for factory log data analysis.
- Created querying and recommendation systems to extract production and personnel insights.
- Implemented real-time monitoring and decision support features to enhance operational efficiency.

PROFESSIONAL EXPERIENCE STATEMENT

From	То	Company/Project/Position/Relevant professional and management experience
		Company: FUYU PRECISION COMPONENT CO., LTD.
		- Position: AI LEADER, Chief Technical
		- Projects Build a global WEF smart factory ¹ :
		Led & code AI projects for a global WEF smart factory, focusing on:
		 AI-enabled order forecasting and supply chain planning Real-time shop floor compliance management with panoramic AI vision Research and development of AI-PINN technology for enhanced quality and efficiency. LLM-enabled failure log analysis and anomaly handling Developed AI programs integrated with factory data and automated
		machinery, leveraging:
		 Data integration from factory systems Automation machinery interfaces
		 Web development for comprehensive report visualization - Project: Al CVs-JDs Matching System Development
		 Developed AI algorithms to facilitate candidate and recruiter matching within a professional web recruitment platform. Implemented advanced search and matching functionalities to optimize
		candidate-job fit.
		 Enhanced system efficiency by integrating machine learning techniques for improved candidate recommendations.
2/2022	Date	- Project: Multilingual Video Dubbing Application Development
_,		 Engineered language conversion functionalities for transforming instructional videos into multilingual content. Designed and implemented Text-to-Speech (TTS) and Speech-to-Text (STT) algorithms to facilitate seamless dubbing across languages. Ensured high-quality output through rigorous testing and optimization of dubbing processes.
		- Project: LLM Integration for Factory Data Analysis
		 Developed and deployed a Lean Learning Machine (LLM) application for factory operations. Created querying and recommendation systems to analyze factory log data and extract insights related to production, personnel, and other relevant factors. Implemented features for real-time monitoring and decision support, enhancing
		overall operational efficiency and productivity.
		- Projects : Product appearance inspection, a list of hundreds of projects
		embedded in a software called IVIS (Intelligent Visual Inspection System), has
		integrated inspection of up to 50 different types of products in one software.
		Some examples about:
		IVIS for Visual Inspection:
		 Check the appearance of the final product (Check if each type of product, the packaging is correct, the labeling is not deviated, there are enough labels,) Check the packaging process (Check if the worker's operation is correct or not, put enough components and accessories,)

¹ Build a global WEF smart factory report:

		 Check bonded with the volume (Check if the weight of each product matches the requirements, the weight of which MAC code, attached to which product,) Check the appearance for accuracy (Check whether the product is affixed with
		 the correct type of label, components and accessories placed in the box are correct for that product,) Check the product function appearance (Check whether the light is working or not, the indicator light is correct with the function test scenario, the indicator light can be controlled,) Monitor and evaluate worker capacity (Supervise working workers, assess the speed of product completion, assess worker qualifications, assess the accuracy of worker manipulations compared to SOP,) Security monitoring of prohibited areas (Monitoring prohibited areas by camera and alerting to enforcement devices) Product quality inspection (Checking for defects in appearance and counting the number of products and components while running on the line) Some KYC related projects:
		- Fingerprint recognition via Camera (Image processing and multiple fingerprint
		recognition through phone camera images)
		- Voice recognition (speech classification, distinguishing between different
		people through voice)
		- Face recognition (regular face or wearing mask, eyeglasses)
	Tools and managements:	
		- Material management system (material information management, material
		ordering management, material supply)
		- Support systems to optimize PM's data forecasting process
		- Management systems and analysis of product log systems and product errors
		- Lean management project to manage production origins
		- Responsibility:
		 Lead team, System design, Project documentation, Task assignment of members, Main coding person,
		Integration of members' small projects to form an AI bonded inspection system. Technology Using Bythern Thiotom Value to greate hand recognition as five as a few and inspection.
		- Techstack: Using Python, Tkinter, Yolo to create bond recognition software, in addition, full-stack code using Flask,
		Company: GRG Banking Equipment Co., Ltd. Guangzhou, China
	12/2019	- Position: Al R&D
		- Project:
9/2016		 R&D on fingerprint recognition for time attendance system R&D on Object Detection for ATM anomaly recognition system R&D on Object Checking for subway automatic entrance and exit tracking system.

From	То	Company/Project/Position/Relevant professional and management experience		
		- Responsibility:		
		 Programming and data processing skills. Research and technical problem-solving skills. Knowledge of Computer Vision and Machine Learning. Experience in developing object recognition and tracking systems. Use popular libraries and frameworks like OpenCV, TensorFlow, PyTorch, and Keras. Ability to work independently and in a team, communication, and presentation skills, Techstack: 		
		1. Programming Languages: Python, C++		
		2. Libraries and Frameworks : OpenCV, TensorFlow, PyTorch, Keras		
		3. Machine Learning and Computer Vision Algorithms: CNNs, RNNs, Transfer		
		Learning, Feature Extraction Techniques		
		4. Development Tools : Jupyter Notebooks, Git, Docker		
		5. Other Tools and Technologies: IDEs (PyCharm, VSCode, JupyterLab), Data		
		Processing Libraries (NumPy, pandas, scikit-learn), Image Annotation Tools		
		(Labelimg, VGG Image Annotator, COCO Annotator)		
		Company: South China University of Technology, Guangzhou, China		
		- Position: PhD. RESEARCHER		
		- Project:		
9/2016	12/2019	 PhD student in the field of Speech Recognition Research other areas: related to Speech, Image, and Deep Learning. Publish 11 scientific research articles 		
		- Responsibility:		
		+ Research new tectnology		
		Company: Thai Nguyen University of Technology, Vietnam		
7/2005	12/2022	- Position: University Lecturer		
		Project: Teaching about Computer Engineering (C/C++, C#, Python, Micro		
		controller – Micro processor, Embedded system, Machine learning –		
		Deeplearning, Al application)		
		- Responsibility: Teaching subjects related to hardware, software, embedded		
		software, and AI.		