Nguyen Van Manh | AI Engineer

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Summary

Motivated AI Engineering student with hands-on experience in Machine Learning, Computer Vision, and NLP. Developed multiple AI projects including RAG-based chatbots, real-time computer vision systems, and content moderation algorithms.

Technical Skills

AI/ML Specialization: Machine Learning, Deep Learning, NLP, Computer Vision, RAG, Vector Databases

Programming Languages: Python , JavaScript, Java, C++, Golang, Solidity

AI Frameworks & Tools: TensorFlow, PyTorch, YOLOv8, MediaPipe, OpenNSFW2, FAISS, NLP

Platforms & DevOps: Django, Flask, Docker, PostgreSQL, MongoDB, Milvus, Git

Soft Skills: Problem-solving, Team Collaboration, Technical Mentoring

Work Experience

NPH Digital
Python Developer   *05/2025 - Present*
- **AI Development**: Designed and deployed AI models to detect toxic and offensive comments
- **Computer Vision**: Integrated OpenNSFW2 for classifying and filtering explicit videos
- **MLOps**: Containerized AI services with Docker and implemented load balancing
- **Backend Engineering**: Built scalable web apps using Django and PostgreSQL

BeBank
Fresher Blockchain Developer   *12/2024 - 05/2025*
- **AI Integration**: Implemented AI-driven features using MediaPipe for video conferencing
- **Smart Contracts**: Developed and optimized contracts with Solidity and Golang
- **Architecture**: Researched Layer 2 scaling solutions and consensus mechanisms

Nhat Nam Corporation
IT Support   *04/2024 - 08/2024*
- **Web Development**: Corporate websites with WordPress, improved UI/UX
- **SEO**: Boosted traffic by 25%

Teky Academy
STEM Instructor   *06/2023 - Present*
- **AI Education**: Taught robotics and computer vision with Python
- **Mentoring**: Guided students for robotics competitions (WRO, FLL)

Projects

OCCO App (Backend & AI Content Moderation):
- Contributed as backend developer for OCCO App, a social networking platform.
- Built AI models for detecting toxic and offensive comments, improving community safety.
- Integrated OpenNSFW2 for real-time filtering of explicit images and videos.
- Developed scalable backend services with Django, PostgreSQL, and Docker.
- Collaborated with frontend and mobile teams to synchronize real-time content moderation.
- Technologies: Python, Django, PostgreSQL, Docker, OpenNSFW2, NLP

Vietnamese Law Chatbot (RAG System):
- Built Retrieval-Augmented Generation system for legal document consultation
- Implemented vector similarity search using FAISS for efficient information retrieval
- Developed Flask web interface with real-time query processing
- Technologies: Python, FAISS, Flask, Transformer Models

Real-time Gesture Control Robot:
- Engineered computer vision system using YOLOv8 for gesture recognition
- Implemented WebSocket communication for low-latency robot control
- Deployed on Raspberry Pi with optimized model for edge computing
- Technologies: Python, YOLOv8, OpenCV, Raspberry Pi

Electronics Consulting Chatbot:
- Developed RAG-based product recommendation system
- Built web scraping pipeline using Selenium and BeautifulSoup
- Created vector database for product information retrieval

- ○ Technologies: Python, FAISS, Web Scraping, NLP

DApp Meeting Platform with AI Features:
- ○ Integrated AI-driven features using MediaPipe for real-time face effects
- ○ Developed decentralized video conferencing with WebRTC and smart contracts
- ○ Implemented computer vision for enhanced user engagement during video calls
- ○ Technologies: Solidity, MediaPipe, WebRTC, Computer Vision

Education

Saigon University
Bachelor of Software Engineering 2021 - 2025
- ○ Relevant Coursework: Machine Learning, AI, Data Structures
- ○ English Proficiency: B2 Level

Achievements

2024: Top 10 - Sudo Code NLP Competition

2025: Top 10 - IOT Challenge AIoT

2023: Top 8 - Coplay UIT Programming Competition

2019: Top 3 - SRobot Robotics Competition