JIMMY NGUYEN

AI Engineer | Software Developer

CONTACT

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Portfolio: Website: https://www.jimmynguyen.site/
GitHub: https://github.com/JimmyNguyen09-AI

EDUCATION

Bachelor of Information Technology | Oct 2023 – July 2026 (Expected)
King's Own Institue (KOI), Sydney
- GPA: 3.8
- Major in Artificial Intelligence

Bachelor of Automotive Technology | Aug 2022 – Aug 2023
Ha Noi University of Science and Technology(HUST), Ha Noi

- Major in Automotive Technology

ACHIEVEMENTS AND HONORS

University Scholarship
- For excellent completion of academic semester: Semester 1, 2, 3 and 4

Direct admission to university
- Directly admitted to Hanoi University of Science and Technology (HUST) due to academic excellence

3rd place award in Mathematics

- Mathematics in the Provincial Excellent Student Competition. Level of recognition: City

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SKILLS & BACKGROUND KNOWLEDGE

- **AI/ML:** PyTorch, OpenCV, Scikit-learn, LangChain, LangGraph, PydanticAI.
- **GenAI & LLM Ops:** OpenAI API, RAG pipelines, Mistral, Pgvector.
- **Full-Stack ML Apps:** FastAPI, Node.js, Express.js, Next.js, React, Tailwind.
- **Programming:** Python (strong), TypeScript/JavaScript, Java, C++, SQL.
- **Dev Tools:** Docker, Git, Linux, Firebase, Google Cloud.
- **Database:** PostgreSQL.
- **Language:** English(IELTS 6.5 equivalent level), VietNamese.

EXPERIENCE

Work Experience

AI Engineer – GRCG (Global Remote Consulting Group) | Aug 2025 – Nov 2025
- Built an AI Agent system using Streamlit, FastAPI, PydanticAI, MCP, OpenAI, Logfire, DuckDB to analyze nationwide cinema revenue in Australia.
- Integrated ML models to predict future movie revenue trends and generate real-time insights.
- Delivered an interactive analytics interface for querying movie performance across all cinemas.

GitHub: https://github.com/aiqcentre/boxai

Personal Project

ZORA – AI Chat Platform
Designed and deployed a scalable multi-agent AI system using a microservices architecture, integrating RAG for context-aware reasoning, real-time message streaming.
Skills & Tech: FastAPI · LangChain · LangGraph · LangSmith · OpenAI · Mistral AI · Node.js · Next.js · JWT · Docker · Tailwind CSS
Link: https://www.jnzora.com

Quick, Draw! – Finger Drawing Recognition
Recreated Google's Quick, Draw! game using real-time finger tracking via webcam instead of mouse input. Implemented gesture recognition and digit classification using OpenCV and a custom CNN model.
Skills & Tech: Python · OpenCV · Computer Vision · CNN · Real-time Inference
Link: https://github.com/JimmyNguyen09-AI/QuickDrawGoogle-CNN

DCGAN – Face Image Generation
Implemented a Deep Convolutional GAN to synthesize realistic human faces from noise vectors. Focused on training stability, visual quality, and generator–discriminator balance.
Skills & Tech: PyTorch · DCGAN · Deep Learning · Generative Models
Link: https://github.com/JimmyNguyen09-AI/DCGANs-FaceGenerate

Staff-Tracking YOLO – Multi-Object Tracking
Applied a pretrained YOLO model (via Ultralytics YOLOv5) to detect and track staff in video streams. Focused on real-time staff detection, automatically marking seats as "empty" when staff leave, and logging the duration of absence, along with bounding box visualization and easy deployment from video input to tracked output.
Skills & Tech: Python · OpenCV · YOLO (Ultralytics) · Object Detection
Link: https://github.com/JimmyNguyen09-AI/Staff-Tracking

Faster R-CNN – Object Detection
Applied a pretrained Faster R-CNN model to detect and classify objects in images using the Pascal VOC dataset. Focused on evaluation, bounding box visualization, and dataset integration.
Skills & Tech: PyTorch · Faster R-CNN · Object Detection · Pascal VOC · Computer Vision
Link: https://github.com/JimmyNguyen09-AI/FasterRCNN-VOC

INTERESTS

- Play sports (badminton, swimming)
- Cooking
- Coding