

Jimmy Nguyen

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SUMMARY

Passionate and self-driven AI/ML Engineer with hands-on experience building multi-agent systems, RAG pipelines, and full-stack AI applications. Proven ability to design and deploy scalable microservices integrating LLMs for real-world products. Seeking an AI/ML Engineer role to develop and integrate intelligent systems that create meaningful impact.

EDUCATION

King's Own Institute (KOI) Oct. 2023 – Jul. 2026 (Expected)
Bachelor of Information Technology | Major in Artificial Intelligence | GPA: 3.8
Sydney, NSW, Australia

Ha Noi University of Science and Technology (HUST) Aug. 2022 – Aug. 2023
Bachelor of Automotive Technology | Direct Admission (Academic Excellence)
Ha Noi, Vietnam

TECHNICAL STACKS

AI / ML: PyTorch, OpenCV, Scikit-learn, LangChain, LangGraph, PydanticAI, YOLOv8, ByteTrack
GenAI & LLM Ops: OpenAI API, RAG Pipelines, Mistral AI, PGVector, LangSmith
Full-Stack ML Apps: FastAPI, Node.js, Express.js, Next.js, React.js, Tailwind CSS
Programming Languages: Python (strong), TypeScript / JavaScript, Java, C++, SQL
Database: PostgreSQL, SQLite, DuckDB
Dev Tools & Cloud: Docker, Git, Linux, Firebase, Google Cloud, Streamlit, MLflow

EXPERIENCE

AI Engineer Aug. – Nov. 2025
GRCG (Global Remote Consulting Group) Remote

- **Built** an AI Agent system using Streamlit, FastAPI, PydanticAI, MCP, OpenAI, Logfire, and DuckDB to analyze nationwide cinema revenue across Australia.
- **Integrated** ML models to predict future movie revenue trends and generate real-time actionable insights.
- **Delivered** an interactive analytics interface enabling dynamic querying of movie performance across all Australian cinemas.

PROJECTS

ZORA – AI Chat Platform | Personal Project jnzora.com

- **Designed and deployed** a scalable multi-agent AI system using a microservices architecture with real-time message streaming.
- **Integrated** RAG (Retrieval-Augmented Generation) for context-aware reasoning, enabling intelligent and grounded conversational responses.
- **Skills & Tech:** FastAPI · LangChain · RAG · PGVector · LangGraph · LangSmith · OpenAI · Mistral AI · Node.js · Next.js · JWT · Docker · Tailwind CSS

SKILLEXA – AI-Powered Coding Learning Platform | Personal Project skillexa.site

- **Designed and deployed** an online programming learning platform for developers using a microservices architecture separating backend and AI services.
- **Integrated** an AI Agent for intelligent Q&A and personalized learning support powered by LangChain and LangGraph.
- **Skills & Tech:** React.js · ASP.NET · FastAPI · LangChain · LangGraph · PostgreSQL · Google OAuth · JWT · Tailwind CSS

Real-time Traffic Violation Detection | Personal Project [View Repository](#)

- **Developed** a computer vision system that detects vehicles running red lights from live video streams using YOLOv8 for vehicle and license plate detection.
- **Implemented** ByteTrack for multi-object tracking and HSV-based traffic light recognition, with results visualized in a real-time Streamlit dashboard.
- **Skills & Tech:** YOLOv8 · ByteTrack · OpenCV · Python · Streamlit · Computer Vision · Docker

Quick, Draw! – Finger Drawing Recognition | Personal Project [View Repository](#)

- **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.
- **Enabled** real-time drawing recognition with low-latency inference for interactive user experience.

Yesterday Stories – Location-Based Storytelling Mobile App | Group Project [View Repository](#)

- **Collaborated** in a team to develop a mobile app allowing users to explore and share historical stories via interactive map trails.
- **Contributed** to map integration, story listing, bookmarking features, and authentication system.
- **Skills & Tech:** React Native (Expo) · Node.js · Express.js · Google Maps API · SQLite · AWS Storage · REST API · Figma

HONORS & AWARDS

University Scholarship – Awarded for excellent academic performance in Semesters 1, 2, 3, and 4.

2023 – 2025

Direct Admission to HUST – Directly admitted to Ha Noi University of Science and Technology based on academic excellence.**2022**

3rd Place – Provincial Mathematics Competition – Mathematics in the Excellent Student Competition at City level.**2022**

LANGUAGES & CERTIFICATIONS

English: IELTS 6.5 equivalent (professional working proficiency) — **Vietnamese:** Native.

Interests: Badminton, Swimming, Cooking, Coding.