

# Jimmy Nguyen

✉ [ng.trungthanh04@gmail.com](mailto:ng.trungthanh04@gmail.com) | ☎ (+61) 432-047-700 | [in linkedin.com/in/jimmynguyen09](https://www.linkedin.com/in/jimmynguyen09)  
🌐 [github.com/JimmyNguyen09-AI](https://github.com/JimmyNguyen09-AI) | 🌐 [jimmynguyen.site](https://jimmynguyen.site) | 📍 Sydney, NSW, Australia

## SUMMARY

Passionate AI/ML Engineer and programming educator with hands-on experience building AI-powered learning platforms, computer vision systems, RAG pipelines, and full-stack AI applications. Experienced in teaching programming, Computer Vision, and AI concepts to Vietnamese students through online classes. Strong ability to explain technical topics clearly, mentor learners, and develop practical AI projects that support education and real-world learning outcomes.

## EDUCATION

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

## TECHNICAL STACKS

**AI / ML:** PyTorch, OpenCV, Scikit-learn, LangChain, LangGraph, PydanticAI, YOLOv8, ByteTrack  
**GenAI & LLM Ops:** OpenAI API, RAG Pipelines, Mistral AI, PGVector, LangSmith  
**Educational Technology:** AI Learning Platforms, Coding Tutorials, Curriculum Design, Student Mentoring  
**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

**Full-Stack AI Engineer** Jul. 2026 – Present  
*PromptLeash* Melbourne - Australia

- **Researched and evaluated** AI models and practical AI applications aligned with the company's business requirements and product objectives.
- **Supported** the training, testing, and improvement of AI models to ensure they could effectively perform business-specific tasks.
- **Contributed** to both frontend and backend development, helping integrate AI capabilities into the company's products and internal systems.

**Online Programming & AI Instructor** 2024 – Present  
*Freelance / Remote Teaching* Vietnam

- **Delivered** online programming lessons to Vietnamese students, covering programming fundamentals, problem-solving, basic algorithms, and project-based coding practice.
- **Taught** introductory Computer Vision and AI topics, including Python, OpenCV, image processing, object detection, and practical AI project workflows.
- **Designed** beginner-friendly learning materials, coding exercises, and mini-projects to help students understand technical concepts through hands-on practice.
- **Mentored** students through debugging, code review, and step-by-step explanations, improving their confidence in programming and AI development.

**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

**SKILLEXA – AI-Powered Coding Learning Platform** | Personal Project [skillexa.site](https://skillexa.site)

- **Designed and deployed** an online programming learning platform that helps learners study coding through structured lessons, quizzes, and AI-assisted support.
- **Integrated** an AI Agent for intelligent Q&A, lesson-specific guidance, and personalized learning assistance powered by LangChain and LangGraph.
- **Built** key education-focused features including user authentication, lesson management, quiz flow, learner progress tracking, and an interactive coding-learning experience.

- **Skills & Tech:** React.js · ASP.NET · FastAPI · LangChain · LangGraph · PostgreSQL · Google OAuth · JWT · Tailwind CSS

#### ZORA – AI Chat Platform | Personal Project

[jnzora.com](https://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

#### 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 · PyTorch · 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 an interactive learning-style user experience.
- **Skills & Tech:** PyTorch · OpenCV · Mediapipe · NumPy · Python · Docker

#### 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**

**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.