

BÙI NGUYỄN GIA HUY

AI Solutions / Software Engineer

Ho Chi Minh City, Vietnam

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EXPERIENCE

HPT Vietnam Corporation

2024 – Present

Software Solution Engineer

Ho Chi Minh City, Vietnam

- Serve as a **technical escalation point** for AI solution opportunities, working directly with customers on discovery, on-site surveys, pain-point analysis, architecture, sizing, proposals, presentations, demos, and PoCs.
- Own the technical relationship for **AIWINOPS** as the **sole engineering interface with its Taiwan-based vendor**; communicate technical issues and customer use cases in English, coordinate fixes, propose features, and co-develop solution/case-study materials.
- Design backend services, plugins, and extensions integrating AI products with third-party Video Management Systems and customer environments; maintain deployment architecture, sizing, documentation, and product knowledge.
- Provide post-sales engineering support from ticket intake through diagnosis and resolution across Linux, networking, RTSP/video pipelines, backend integrations, and deployed AI systems.
- Translate ambiguous customer problems into implementable technical solutions and independently research unfamiliar areas when required; guide interns/freshers on implementation and debugging.

PROJECTS

Technical Support AI Assistant | Full-stack / Applied AI Engineer, Team of 1

Internal Demo

- Owned delivery end-to-end across frontend, FastAPI/backend services, document ingestion, hybrid/multimodal RAG, reranking, agentic retrieval, and integration; achieved **5s average latency** in fast mode.

Industrial Computer Vision Inspection PoC | AI Solutions Engineer, Team of 2

Customer PoC

- Consulted on **nearly 50 Computer Vision use cases** across multiple factory sites and delivered a customer PoC spanning requirements, data collection, model training, web application, Linux deployment, and on-site iteration.
- Built a CPU-only inference pipeline sustaining **15 FPS on a 12th-gen Intel Core i5** and investigated field issues across camera quality, compression, perspective, and environmental conditions.

HPT Smarttrak | Software Engineer, Team of 3

Production

- Implemented backend APIs integrating face-recognition camera events with physical access control and fine-tuned custom object-detection models for additional customer use cases.

EDUCATION

Ho Chi Minh City University of Technology (HCMUT), Vietnam National University

2025 – Present

Master of Computer Science – AI Specialization

Ho Chi Minh City, Vietnam

Ho Chi Minh City University of Technology (HCMUT), Vietnam National University

2020 – 2024

Bachelor of Computer Science

Ho Chi Minh City, Vietnam

SKILLS

AI Solutions: Python, RAG, hybrid retrieval, reranking, multimodal RAG, AI agents, LangChain, LlamaIndex, OpenAI API, Computer Vision

Software / Backend: FastAPI, Node.js, PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch; Flask, Django

Systems / Integration: Docker, Linux, Git/GitHub, RTSP, SSH, VPN, networking; Nginx, CI/CD, Kubernetes

ML Tooling: PyTorch, TensorFlow, YOLO, OpenVINO, ONNX, OpenCV, Hugging Face, scikit-learn

Languages: Vietnamese (native), English (working proficiency)