

# Van-Loc (Felix) Nguyen

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## EXPERIENCE

**Eurofins** Ho Chi Minh City, Vietnam  
**Software Engineer** Apr 2026 - Present

- IT Application Monitoring and Observability.

**National Institute of Informatics (国立情報学研究所)** Chiyoda-ku, Tokyo, Japan  
**Research Intern** Oct 2025 - Mar 2026

- Participate in the NII International Internship Program, lasting from October 2025 to March 2026.
- Conduct research on synthetic image detection (AI-generated image detection) with small vision-language models at Laboratory of Professor Echizen.
- Mentor: Dr. Pyone MaungMaung

**Autonomous Inc** Ho Chi Minh City, Vietnam  
**AI Engineer** Mar 2025 - Aug 2025

- Build AI agents with OpenAI and Langchain for real-world applications.
- Optimize AI agents to perform stably on local environment (MacOS-centric) with small models (for example, Qwen-4B) by context engineering.

**Saritasa** Ho Chi Minh City, Vietnam  
**Backend Engineer** Jun 2023 - Feb 2025

- Developed, optimized, and maintained the backend side for several projects, with a significant number of users in the US market, in Django and Django REST Framework, combined with PostgreSQL and Celery.
- Familiar with Jira and Slack to manage and update task progress.
- Experienced with DevOps tools such as Kubernetes or Teleport.

**Backend Engineer Intern** Mar 2023 - May 2023

- Be trained with essential skills for a back-end developer, especially for Python with Django, Docker usage, and PostgreSQL.

## SKILLS & INTERESTS

**Technical:** Backend Development, Python, PyTorch, FastAPI, Django, OpenAI API, C++.

**Language:** English, Vietnam.

**Soft Skills:** Team work, communication.

**Quick learner with strong adaptability to new technologies and frameworks.**

## EDUCATION

**Univerisity of Science, VNUHCM** Ho Chi Minh City, Vietnam  
Bachelor of Science in Computer Science, **Honors Program** Oct 2020 - Oct 2024

GPA: 3.88/4.00

Graduation Thesis Title: Fake News Analysis and Detection

Thesis Score: 10.00/10.00 (4.00/4.00)

## PROJECTS

**Doodle Duel: AI-Powered Multiplayer Drawing Game** Feb 2026.

Built a real-time multiplayer drawing game at Gemini 3 Hackathon Tokyo using React, Express, TypeScript, and Socket.IO with live canvas sync, round timer, and scoring.

Integrated **Gemini 2.5 Flash** (vision) for sketch classification and LLM-based refereeing to determine winners; used **Imagen 4** for prompt/image generation.

Deployed a containerized full-stack system with Docker, Traefik, and Let's Encrypt.

**Role: Main Developer.**

**Deployment Link:** <https://jankenpon.nguyenvanloc.com>

**GitHub URL:** <https://github.com/heyGio/jankenpon/tree/loc/hehe>

### **ArcanaAI: AI-Powered Tarot Reading Service**

Apr 2025 - Aug 2025

Built ArcanaAI, an AI-powered tarot reading platform with GPT-based real-time interpretations using OpenAI function calling.

Developed interactive chat, journaling, and history features with FastAPI, LangChain, Next.js, and Docker.

**Role: Main Developer.**

**Deployment Link:** <https://arcanaai.nguyenvanloc.com>

**GitHub URL:** <https://github.com/vanloc1808/arcana-ai>

### **GraphRAG: Knowledge-Graph Retrieval System**

March 2025

A RAG system combining vector search and knowledge graph traversal with local LLMs.

Automated triplet extraction and graph construction from documents.

Developed a hybrid retrieval strategy (vector search and knowledge graph search) to improve accuracy and reduce hallucination.

Deployed with FastAPI and a minimal web interface.

**Role: Main Developer**

**GitHub URL:** <https://github.com/hcmus-project-collection/graphrag-llm-with-knowledge-base>

### **Fake News Analysis and Detection**

Feb 2024 - Aug 2024

Undergraduate thesis at the University of Science, VNUHCM.

Propose the usage of an end-to-end network for the Visual Entailment task to solve both tasks of the cheapfakes detection challenge.

Introduce a cheapfakes data augmentation method with LLMs.

Implement a reputation checking module to check the image over the Internet to utilize social information.

Develop an open system to assist users in fake news analysis and detection with the help of an external forensic framework.

**Role: Co-Main Developer.**

**GitHub URL:** <https://github.com/nbtin/fakenews-detection-demo>

## **PUBLICATIONS**

Google Scholar Link: <https://scholar.google.com/citations?user=39z1A1IAAAAJ&hl=en>

## **CERTIFICATES & AWARDS**

**Third Prize, The 26th Student Scientific Research Award - Euréka 2024**

Ho Chi Minh City, Vietnam

**Third Prize, The 2024 "AI City Challenge" (AIC) of Ho Chi Minh City**

Ho Chi Minh City, Vietnam

**Certificate of Satisfactory Progress from President of VNUHCM**

Ho Chi Minh City, Vietnam