

Vu Hoang

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EDUCATION

Troy University

Troy, AL

Bachelor of Science in Computer Science (Cumulative GPA: 3.5)

Expected 2027

- **Awards:** Chancellor's List (Fall 2024), International Trojan Opportunity Scholarship
- **Courseworks:** Algorithm Analysis, Data Structures & Algorithms, OOP, System Architecture, Computer Logic
- **Activities:** Troy Computer Science Club, Troy Hackathon 2024

TECHNICAL SKILLS

Languages: Python, C++, TypeScript, SQL, HTML/CSS

Frameworks: React/Next.js, Django, LangChain, FastAPI

Tools: TailwindCSS, ChromaDB, MySQL, Git/GitHub, Docker, Figma, Vercel, Render

EXPERIENCE

The International Society of Data Scientists

Feb. 2025 - Present

Data & AI Intern

Remote

- Conducting **AI R&D projects** aimed at positive impacts on both the Vietnamese and global communities.
- Leveraging **Data Science** and **Natural Language Processing** skills to develop and optimize **Large Language Models** and **Retrieval-Augmented Generation (RAG)** systems.

Google Developer Group - Hanoi University of Science and Technology

Sep. 2023 – Aug 2024

Web Developer

Hanoi, Vietnam

- Co-developed the **homepage** for a community of **100+ members** across campus using Next.js, TailwindCSS, Shadcn, and AOS, enhancing visibility and boosting engagement by **20%**.
- Collaborated to design **wireframes and prototypes** during a hackathon, contributing to a scalable web project on enhancing educational access.
- Conducted a tech-sharing session on **Three.js**, demonstrating its capabilities and applications in interactive 3D web experiences

PROJECTS

Legal Document Crawler & Semantic Search | *Python, LangChain, ChromaDB*

Feb. 2025

- Built an automated tool to **extract and organize** Vietnamese legal documents (full content, history, related articles, property, and PDFs) using **BeautifulSoup**, **Selenium**, saving **100+ of hours** of manual work.
- Implemented a vector database with **ChromaDB**, leveraging the **BKAI Vietnamese Bi Encoder model** and **Pyvi** for efficient document embedding and retrieval.
- Enhanced **semantic search** using **LangChain**, handling special cases to improve the accuracy of legal document retrieval with high relevance score.

Assistant Chatbot Website | *Python, FastAPI, OpenAI API, HTML, CSS*

Jan. 2025

- Developed a **full stack AI chatbot** using Python and FastAPI, integrating OpenAI's **ChatGPT models** for natural language understanding and generation, also image generation capabilities using OpenAI's **DALL-E API**
- Created the user interface with **HTML, CSS and Bootstrap 5**, ensuring a clean and responsive design for an optimal user experience
- Deployed the chatbot on **Render**, ensuring reliable performance and seamless interaction

GDGoC - HUST Website | *Next.js, TypeScript, Tailwind CSS*

Mar. 2024

- Co-developed and designed the homepage for GDGoC - HUST (Google Developer Group on Campus - Hanoi University of Science and Technology)
- Created a responsive, user-friendly interface using **Next.js, Tailwind CSS, Shadcn, and AOS**, improving accessibility and engagement by ensuring a seamless user experience across devices
- Deployed the website using **Vercel**, optimizing performance, boosting SEO rankings, and increasing visibility for easier access to resources for users