

HOANG DUC DUONG

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SUMMARY

Junior Computer Science student with a strong passion for backend development, machine learning, and data engineering. Eager to apply my knowledge through real-world projects and gain experience in dynamic, professional environments. Committed to continuous learning, adaptation, and contributing to innovative solutions in the tech industry.

EDUCATION

Lao Cai High School for Gifted Students

2019 - 2022

Bachelor's Degree in Computer Science at UET - VNU

Graduating May 2026

University of Engineering and Technology, VNU

3.78 CPA

Scholarships: Scholarships to encourage study, Jardine Cycle and Carriage Scholarship

TECHNICAL SKILLS

Programming: Python, C++, Java, JavaScript

Sw & Tools: Linux (Ubuntu), Git, VSCode, IntelliJ, Microsoft Office, Google Workspace

Language: English: Upper Intermediate

WORK EXPERIENCE

Data Science and Knowledge Technology Laboratory - DS&KTLab, UET: Researcher

July, 2024 – December, 2024

Using AI techniques to develop a knowledge- and data-driven chatbot, agent for business

- Deployed machine learning models to analyze large datasets and optimize system performance
- Developed and deployed RAG-based AI assistants using LLMs to enhance enterprise knowledge retrieval

Dagoras Technology and Communications JSC, Ha Noi: DS Intern

July, 2024 – December, 2024

Using AI techniques to develop a knowledge- and data-driven chatbot, agent for business

- Built chatbot with LangChain and LangGraph, using RAG to retrieve enterprise data
- Optimized vector database search with Elasticsearch, managed and stored conversations with Redis

Viettel Digital Talent Program 2025, Ha Noi: Software Engineer Trainee

April, 2025 – present

Intensive foundational training in software engineering: core concepts, system design, and backend development

- Gained a strong foundation in software engineering principles, including algorithms, data structures, and design patterns
- Practiced system design to build scalable, maintainable applications
- Developed backend components and worked with modern development tools and workflows

ACADEMIC PROJECTS

QAirline - Website for managing and booking flights

Winter, 2024

Led team of two to design and develop an airline website

- Tech Stack: MongoDB, Express.js, React.js, Node.js, Redux, UI ShadCN, Nodemon.
- Team Lead (2 members): Developed both frontend and backend

Child Mind Institute: Problematic Internet Use - Kaggle Competition

Winter, 2024

Leveraged machine learning to predict and classify problematic internet usage in children.

- Conducted EDA, including data cleaning, visualization, and feature engineering
- Developed, tuned, and validated predictive models using Python libraries

Mobile plan consulting chatbot

Winter, 2024

Developed a chatbot system that helps customers find suitable mobile plans

- Tech Stack: Python, LangChain, Redis, Ollama, LLaMA, SQL, RAG, Docker, Elasticsearch, FastAPI, React
- Developed a prototype capable of answering basic questions about available plans in the database with high accuracy

ACTIVITIES

Supporter Group of UET (SGUET)

October 2023 – Present

Head of Events and Vice President of a 300-member club with 16K followers at UET

- Led the organization of multiple large-scale events, engaging thousands of participants online and offline
- Oversaw social media growth and engagement, contributing to the club reaching 16K followers

CERTIFICATION

Certificate of appreciation in Vietnam Hackathon: Onchain Names & Identity 2024

April, 2024

First prize in the TechSpark Contest 2025 - Student Product Innovation Competition at UET

April, 2025