

# 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**  
**Bachelor's Degree in Computer Science at UET - VNU**  
University of Engineering and Technology, VNU  
Scholarships: Scholarships to encourage study, Jardine Cycle and Carriage Scholarship

2019 - 2022  
Graduating May 2026  
3.78 CPA

## 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**  
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

July, 2024 – December, 2024

**Ragodas Technology and Communications JSC, Ha Noi: DS Intern**  
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

July, 2024 – December, 2024

**Viettel Digital Talent Program 2025, Ha Noi: Software Engineer**  
Comprehensive training in software engineering, covering system design, backend development, and AI applications

- Studied and applied system design principles to build scalable and maintainable applications
- Explored AI applications in software engineering, including chatbot development and data-driven systems

April, 2025 – present

## ACADEMIC PROJECTS

**QAirline - Website for managing and booking flights**  
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

Winter, 2024

**Child Mind Institute: Problematic Internet Use - Kaggle Competition**  
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

Winter, 2024

**Mobile plan consulting chatbot**  
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

Winter, 2024

## ACTIVITIES

**Supporter Group of UET (SGUET)**  
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

October 2023 – Present

## CERTIFICATION

Certificate of appreciation in Vietnam Hackathon: Onchain Names & Identity 2024  
First prize in the TechSpark Contest 2025

April, 2024  
April, 2025