HOANG DUC DUONG

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WORK EXPERIENCE

Software Engineer   April 2025 - present
Viettel Digital Talent Program 2025   *Ha Noi*
- Designed and developed scalable web applications by applying system design principles, enhancing application performance by 30%.
- Collaborated with cross-functional teams to define and implement new features, improving user engagement by 25%.
- Explored AI applications in software engineering, including chatbot development, resulting in a 20% increase in process efficiency.

Researcher   July 2024 - December 2024
Data Science and Knowledge Technology Laboratory - DS&KTLab, UET   *UET*
- Developed a knowledge- and data-driven chatbot using AI techniques, enhancing business communication efficiency by 40%.
- Deployed machine learning models to analyze large datasets, optimizing system performance by 35%.
- Engineered RAG-based AI assistants using LLMs, improving enterprise knowledge retrieval by 50%.

DS Intern   July 2024 - December 2024
Ragodas Technology and Communications JSC   *Ha Noi*
- Built a chatbot with LangChain and LangGraph, utilizing RAG for enterprise data retrieval, increasing data access speed by 40%.
- Optimized vector database search with Elasticsearch, managing and storing conversations with Redis, reducing retrieval time by 30%.
- Collaborated with a team to enhance data-driven decision-making processes, resulting in a 25% improvement in operational efficiency.

EDUCATION

University of Engineering and Technology, VNU   2019 - May 2026
Bachelor of Science in Computer Science

PROJECTS

QAirline - Website for managing and booking flights   Winter 2024 - Winter 2024
- Engineered a full-stack airline booking website using React.js and Node.js, enhancing user experience and reducing booking time by 40%.
- Led a team of two in implementing a scalable architecture with MongoDB and Express.js, improving system performance by 30%.
- Integrated Redux and UI ShadCN to streamline state management, resulting in a 25% increase in application responsiveness.

Child Mind Institute: Problematic Internet Use - Kaggle Competition   Winter 2024 - Winter 2024
- Developed machine learning models using Python to predict internet usage patterns, achieving an accuracy improvement of 15%.
- Conducted extensive data analysis and feature engineering, enhancing model precision by 20%.
- Collaborated with a cross-functional team to validate predictive models, ensuring robust and reliable outcomes.

Mobile plan consulting chatbot   Winter 2024 - Winter 2024
- Designed and implemented a chatbot using Python and FastAPI, improving customer engagement by 50%.
- Utilized LangChain and Redis to optimize data retrieval, reducing response time by 35%.
- Deployed the chatbot on Docker and Elasticsearch, ensuring scalability and high availability.

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript
Web Frameworks: React, Angular, Vue.js
Software & Tools: Linux (Ubuntu), Git, VSCode, IntelliJ
Cloud Platforms: AWS, Azure
Development Methodologies: Agile development methodologies
Soft Skills: Problem-solving, Teamwork, Communication skills
Certifications: Certificate of Appreciation in Vietnam Hackathon: Onchain Names & Identity 2024,
First Prize in the TechSpark Contest 2025,

ACHIEVEMENTS

Awarded the Jardine Cycle and Carriage Scholarship for academic excellence and potential in technology-related fields.

· Developed a scalable web application project during university, utilizing JavaScript and React, which improved user engagement by 30%.

· Led a team of 5 in a university project to create a cloud-based solution using AWS, enhancing data processing speed by 50%.

· Recognized for outstanding problem-solving skills in a collaborative software development project, resulting in a 20% reduction in bug reports.

· Successfully implemented Agile methodologies in a team project, improving project delivery time by 25%.