

Van-Nhan Dang

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CAREER OBJECTIVE

- Computer Science undergraduate with a strong interest in AI, Machine Learning and Computer Vision.
- Passionate about developing ethical, impactful technologies to solve real-world problems.
- Seeking opportunities to grow as an AI Engineer/Researcher through hands-on projects and research.

EDUCATION

School of Information and Communication Technology (SoICT) Hanoi University of Science and Technology (HUST) Bachelor of Science in Global ICT Program CPA: 3.75/4.00	Hanoi, Vietnam <i>Sep, 2022 – Present</i>
Tran Phu Gifted High School Specialized Student in Informatics GPA: 9.37/10.00	Haiphong, Vietnam <i>Jul, 2019 – Jul, 2022</i>

SKILLS

Programming Languages	C, C++, Java, Python, SQL, NoSQL
Libraries & Frameworks	PyTorch, Tensorflow, OpenCV, Numpy, Pandas, Matplotlib
Tools & Platforms	Git, GitHub
Mathematics & Core CS	Data Structures & Algorithms, Object-oriented Programming, Calculus, Algebra, Statistics, Discrete Math, Basic Physics
Soft Skills	Problem-solving, Teamwork, Time Management, Critical Thinking
Languages	Vietnamese (Native), English (Upper-Intermediate)

HONORS & AWARDS

HUST 2024.2 Academic Achievement Scholarship, Grade: Excellent Ranked 1st in Cohort 67's IT track this semester. GPA: 4.00/4.00 , Training Point: 100/100 .	<i>Apr, 2025</i>
HUST 2023.1 Academic Achievement Scholarship, Grade: Excellent	<i>Nov, 2023</i>
Participant, Vietnam Olympiad in Informatics (VOI) 2022 Participated in Vietnam's national Informatics competition.	<i>Mar, 2022</i>
Second Prize, Provincial Informatics Contest	<i>Sep, 2021</i>

EXPERIENCE

BKAI Research Center, HUST <i>Research Assistant</i>	Hanoi, Vietnam <i>Sep, 2024 – Present</i>
<ul style="list-style-type: none">• Conducted research in Computer Vision lab on image/video processing and anomaly detection.• Applied deep learning models to analyze and detect anomaly events in videos and images.	
SoICT, HUST <i>Teaching Assistant</i>	Hanoi, Vietnam <i>Sep, 2024 – Present</i>
<ul style="list-style-type: none">• Assisted in lab sessions for Data Structures and Algorithms courses.• Guided students in programming and applying algorithmic thinking to solve practical problems.	

PROJECTS

Fake News Detection

[GitHub](#)

- Built a multi-domain fake news classifier using transformer models: **XLNet**, **RoBERTa**, **DeBERTa**, **BERT**, **XLM-RoBERTa**, and **Electra**.
- Preprocessed data, fine-tuned models, and evaluated performance.
- Conducted literature review, analysis, and co-wrote final report.

Sign Language Recognition

[GitHub](#)

- Built a real-time hand sign recognition system using the **ASL Alphabet Dataset**.
- Fine-tuned **EfficientNet-B0** and **ConvNeXt-Tiny** models for 26-class classification.
- Deployed webcam-based inference optimized for high accuracy and low latency.

Movie Ticketing System

[GitHub](#)

- Designed and implemented a relational database system for cinema ticket booking.
- Led **schema design** (ERD, relational schema), created **views**, **indexes** to optimized query performance.

Movie Recommendation System

[GitHub](#)

- Developed a recommender system using machine learning models.
- Implemented, evaluated, and optimized **FunkSVD**; conducted experiments and analyzed results.

Data Structures Visualization

[GitHub](#)

- Built a Java-based **GUI** to **visualize data structures** for educational purposes.
- Focused on **stack** operations; developed animations and step-by-step execution features.

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

SoICT Student Volunteer Team (VIT), HUST

Hanoi, Vietnam

Former Head of Administrative Affairs

Dec, 2022 – Dec, 2024

- Managed internal operations and discipline for a team of over 200 volunteers.
- Led HUST's key volunteer campaigns: **Loving Spring** and **Green Summer** with 60-70 participants.
- Awarded Certificate of Merit for outstanding contributions over 2 years.

Youth Union – Student Association, SoICT, HUST

Hanoi, Vietnam

Member, Information & Foreign Affairs Department

Dec, 2023 – Present

- Supported communication efforts and external relations for various student-led events.
- Assisted in content creation and promotional strategies to enhance outreach and engagement.
- Contributed to building partnerships and maintaining a positive image for the department.