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, Vietnam
Hanoi University of Science and Technology (HUST) *Sep, 2022 – Present*
Bachelor of Science in Global ICT Program
CPA: 3.75/4.00

Tran Phu Gifted High School Haiphong, Vietnam
Specialized Student in Informatics *Jul, 2019 – Jul, 2022*
GPA: 9.37/10.00

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, Probability & 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 *Apr, 2025*
Ranked **1st** in Cohort 67's IT track this semester.
GPA: **4.00/4.00**, Training Point: **100/100**.

HUST 2023.1 Academic Achievement Scholarship, Grade: Excellent *Nov, 2023*

Participant, Vietnam Olympiad in Informatics (VOI) 2022 *Mar, 2022*
Participated in Vietnam's national Informatics competition.

Second Prize, Provincial Informatics Contest *Sep, 2021*

Experience

BKAI Research Center, HUST Hanoi, Vietnam
Research Assistant *Sep, 2024 – Present*

- 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 Hanoi, Vietnam
Teaching Assistant *Sep, 2024 – Present*

- 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.