# DANG VAN NHAN

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## SUMMARY

I am a final-year IT undergraduate at **HUST** with a strong passion for **AI, Machine Learning and Deep Learning**. I enjoy turning ideas into real systems, from deep learning models to full-stack applications, through both academic projects and side research. I'm excited about creating technologies that are not only innovative but also meaningful, and looking forward to contributing to impactful AI research and engineering work.

## EDUCATION

**Hanoi University of Science and Technology (HUST)** — Hanoi, Vietnam
*B.Sc. in Information Technology, Global ICT Program* — *Sep, 2022 – Present*
**CGPA: 3.80/4.00**

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

## SKILLS

| | |
|---|---|
| **Programming Languages** | C, C++, Python, Java, SQL |
| **Libraries & Frameworks** | PyTorch, TensorFlow, OpenCV, NumPy, Pandas, Matplotlib |
| **Tools & Platforms** | Git, GitHub, Jupyter Notebook |
| **Core CS & Math** | Data Structures & Algorithms, Object-oriented Programming, Discrete Math, Linear Algebra, Calculus, Probability & Statistics |
| **Soft Skills** | Problem Solving, Teamwork, Time Management, Critical Thinking, Adaptability |
| **Languages** | Vietnamese (Native), English (Upper-intermediate) |

## HONORS & AWARDS

**HUST Academic Achievement Scholarship, Grade: Excellent**
Awarded for top 8% academic performance in semesters 2023.1, 2024.2, and expected for 2025.1.

**Participant, Vietnam Olympiad in Informatics (VOI) 2022** — *Mar, 2022*
Participated in Vietnam's largest national informatics contest for high school students.

**Second Prize, Provincial Informatics Contest** — *Sep, 2021*

## EXPERIENCE

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

- Conducted research in **Computer Vision** lab on video analysis.
- Applied deep learning models to analyze and detect anomaly events in videos.

**SoICT, HUST** — Hanoi, Vietnam
*Teaching Assistant* — *Sep, 2024 – Jul, 2025*

- Assisted in lab sessions for **Data Structures and Algorithms** courses.
- Got certificates of recognition for outstanding performance in this activity.

## PROJECTS

**Fake News Detection** — [GitHub]

- Built a multi-domain classifier for detecting fake news across COVID-19, politics, and entertainment.
- Fine-tuned **XLNet**, **RoBERTa**, and **DeBERTa**, with multiple training strategies and ensemble methods.

- Achieved robust cross-domain performance, improving classification accuracy (**9/10 score**).

### AIMS: An Internet Media Store [GitHub]

- Developed a full-stack e-commerce platform simulating end-to-end shopping workflow.
- Led backend development and system design using **React**, **Spring Boot**, **PostgreSQL**, and VNPay integration.
- Delivered production-ready application, scored **10/10 (Functionality & UI)**, **8.5/10 (Design)**.

### Money Manager [GitHub]

- Built a cross-platform finance app with **React Native**, integrating **MC-OCR** for Vietnamese receipts and an AI chatbot (**n8n**).
- Automated receipt-to-transaction conversion and delivered personalized spending insights, earning a **9/10 capstone score**.

### Sign Language Recognition [GitHub]

- Developed an ASL alphabet recognizer with **EfficientNet-B0** feature extractor.
- Implemented **5-shot user adaptation** using cosine-distance **KNN** on embeddings.
- Reached **97% accuracy** on 26 classes, enabling personalized learning tools.

### Movie Ticketing System [GitHub]

- Built a relational database application for cinema ticket booking.
- Designed a well-structured schema and implemented optimized queries to ensure data consistency and efficient performance.
- Helped users book tickets seamlessly and avoid scheduling conflicts; ranked **Top-1 project in class** with a **9/10 score**.

## LEADERSHIP & EXTRACURRICULAR ACTIVITIES

**Youth Union – Student Association, SoICT, HUST**　　　　　　　　　　Hanoi, Vietnam
*Member, Information & Foreign Affairs Department*　　　　　　　　　　*Dec 2023 – Jul 2025*

- Supported communications, external relations, and promotions for major student-led events.
- Helped build partnerships and strengthen the organization's public image.

**SoICT Student Volunteer Team (VIT), HUST**　　　　　　　　　　　　Hanoi, Vietnam
*Head of Administrative Affairs Department*　　　　　　　　　　　　*Dec, 2022 – Dec, 2024*

- Led internal operations for **200+ volunteers** and organized HUST's major campaigns (**Loving Spring, Green Summer**).
- Earned a **Certificate of Merit** for 2 years of outstanding contributions.