

# CAO HOAI YEN VY

📞 0703679144 ✉ [yenvy.caohoai@gmail.com](mailto:yenvy.caohoai@gmail.com) [in LinkedIn](#) [Github](#)

## About me

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Dedicated and forward-thinking Computer Science student with a strong focus on Artificial Intelligence. Passionate about learning, building, and evolving through real-world projects that integrate creativity, collaboration, and technical depth. Comfortable working in English (CEFR B2 equivalent), with experience in academic writing, team communication, and technical presentation.

## Education

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### University of Science

*Computer Science & Artificial Intelligence*

**2021 - 2025**

*GPA: 8.6/10*

## Projects

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### BiCore (Thesis) — Multimodal Knowledge Graph Completion *June 2024 - 2025*

- Proposed a curvature-aware bicomplex embedding framework for multimodal knowledge graph completion.
- Integrated complex-valued embeddings with manifold learning and fusion strategies.
- Demonstrated strong research and implementation capabilities under academic supervision.

### WinX — Vietnam Datathon 2023 *Dec 2023*

- Collaborated in a team to create a retail analytics tool leveraging real-time CCTV data.
- Identified customer behavior patterns to inform in-store marketing decisions.

### Hate Speech Detection — Transformer-based NLP Model *June 2023*

- Fine-tuned a Transformer-based model on the HateXplain dataset for multi-label hate speech classification.
- Enhanced performance through data preprocessing, loss function adjustment, and model optimization.

### FoodFeast — AI Mobile App for Recipe Recommendations *Dec 2023*

- Led a cross-functional team to design and build a recipe recommendation app using Flutter.
- Implemented a personalized AI engine based on dynamic user preferences and ranking logic.
- Integrated UI/UX, data handling, and real-time querying with Supabase backend.

## Technical Skills

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**Languages:** Python, Java, C++, JavaScript

**Frameworks & Libraries:** TensorFlow, PyTorch, Scikit-learn, Keras, OpenCV, Pandas, NumPy, Matplotlib

**Machine Learning:** Deep Learning, Transformers, GANs, Diffusion Models

**Domains:** NLP, Computer Vision, Multimodal Learning

**Big Data:** Hadoop, Spark; **Databases:** SQL, MongoDB

**Tools:** Git, Figma, Jupyter Notebook, Agile methodologies

## Honours and Awards

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### GeoComply Hope Scholarship

*Awarded for excellence in IT academics and extracurriculars*

**Apr 2024**

### Dean's List (Sem 1 and 3)

*Recognized for consistent academic excellence*

**Dec 2022, Apr 2024**

## Competitions and Hackathons

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- **Vietnam Datathon 2024 (Top 24):** Built a retail optimization solution using CCTV analytics.
- **TikTok TechJam 2024:** Developed a generative AI tool for social media creators.
- **SheCodes Hackathon 2023:** Designed a mentorship platform to support women in tech.
- **Code Like a Girl 2023:** Created an app addressing environmental awareness.