

## EDUCATION

### University of Information Technology, VNUHCM

Sep 2020 – Jan 2024

- Bachelor's Degree (**Honors Program**), in Computer Science, GPA: 9.0/10 - Excellent
- UIT Full-tuition Scholarship.
- UIT Honors Challenge Scholarship in 2 semesters (Prize B and C, respectively).
- UIT Academic Encouragement Scholarship in 2 semesters.

## EMPLOYMENT

### Applied Science Intern

VinBrain

Sep 2023 – Feb 2024

- Leveraged cutting-edge AI techniques to develop and implement solutions for the identification and characterization of Liver Cancer through medical image analysis.
- Developed **Image Registration** algorithms and workflows with multidisciplinary teammates to ensure seamless integration of registered images into medical reports and diagnostic tools.
- Proposed a classification algorithm for 5 different organs for CT Screening problem

### AI Bootcamp Participant

Cinnamon AI

Jun 2023 – Aug 2023

- Acquired expertise in using various technologies and platforms, including **FastAPI, Gradio, ReactJS, AWS, Label Studio, DVC, and Docker**.
- Developed a **3D motion-capturing system** as the final project, which involved using E<sup>2</sup>FGVI for video inpainting, and FrankMocap for pose estimation and alignment of a mannequin to the scene.

## PROJECTS

### Liver Tumor Recognition and CT Screening

Sep 2023 – Feb 2024

- **Description:** Focusing on developing a comprehensive solution for liver tumor identification and CT screening. Liver Tumor Recognition consists 5 key stages: Phase Classification, Liver Segmentation, Image Registration, Tumor Segmentation, Tumor Classification.
- **My contributions:** Developing a Classification model for anomaly detection in CT scans of 5 organs: kidney, pancreas, gallbladder, spleen and lung. And maintaining ICP, SPAC and NODEO for Image Registration task.

### Neural Prediction-based Zero-shot NAS

Jan 2023 – Sep 2023

- **Description:** Proposing a novel approach for zero-shot NAS using deep learning. Our method employs Fourier sum of sines encoding for convolutional kernels, enabling the construction of a computational feed-forward graph with a structure similar to the architecture under evaluation. Create the first neural zero-shot NAS procedure that found the SoTA network under 1 million parameters for CIFAR-10.
- **My contribution:** Contribute ideas to improve the model and run the experiments.

### Event Retrieval from Visual Data

Sep 2022 – Dec 2022

- **Description:** Utilizing the CLIP model for keyframe and text information extraction, combined with the SCANN model/ ElasticSearch for nearest neighbor search, secured the **Second Prize at the Final Round** of AI Challenge HCM 2022 for video segmentation from 300 hours of news.
- **My contribution:** Building a web interface that enables keyframe searches based on text queries. By using the Whisper model (Automatic Speech Recognition) and Google Vision API (Optical Character Recognition), I can leverage information from speech, and scene text to improve system performance.

## HONORS & AWARDS

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|---|------|
| • Odon Vallet Scholarship   | 2019 |
| • Bronze Medal of Vietnam Mathematical Olympiad   | 2020 |
| • Consolation Prize in the Ho Chi Minh AI Challenge   | 2021 |
| • Silver Medal of Vietnam Mathematical Olympiad for University Student, in Algebra, group A       | 2022 |
| • Consolation Prize of Vietnam Mathematical Olympiad for University Student, in Calculus, group A | 2022 |
| • Second Prize in the Ho Chi Minh AI Challenge  | 2022 |
| • Bronze Medal of Vietnam Mathematical Olympiad for University Student, in Algebra, group A       | 2023 |
| • Bronze Medal of Vietnam Mathematical Olympiad for University Student, in Calculus, group A      | 2023 |

## LANGUAGES

- Languages: Vietnamese (Native Proficiency), English (IELTS 6.0)