Huy Nguyen Duc

(+65) 84060642 | duchuy2972005@gmail.com | linkedin.com/in/huynguyenduc297 | github.com/huy297

EDUCATION

National University of Singapore

Aug 2024 - May 2028

Bachelor of Computing in Computer Science

- Specialization: Parallel Computing and Distributed System, Algorithms and Theory
- ASEAN Scholarship Holder: Full tuition fee and living allowance
- Internship availability: May 2026 Aug 2026 (full-time)

EXPERIENCE

Research Assistant Sep 2023 – Jan 2024

Hanoi International Research Center for AI (HUST)

- Participated in implementation and optimisation PC algorithms about Causal Graph, improving computational efficiency by 20%
- Built preprocessing pipeline for sign language videos (scraping + OCR), generating dataset of 72 hours of annotated data to train translation model

PROJECTS

Online Judge for Competitive Programming (https://oi.hncode.edu.vn)

- A website for Hanoi students to learn and practice competitive programming, with 2000+ users and over 3000+ daily submissions
- Developed backend system using C++ to integrate programming problems from Polygon (Codeforces tool) into web platform
- Implemented a test file caching mechanism, reducing cloud storage usage and cutting server costs by 60%.

Survival Game (https://github.com/huy297/MyGame)

- · Developed a 2D game for an advanced programming course using C++ and SDL2 library
- Improve BOT movement and attack behaviours by modifying shortest path algorithm like Dijkstra and BFS, resulting in more human-like actions and smoother gameplay with significant improved FPS

Chatting App (https://github.com/huy297/HaSun)

- · Built the frontend using React and Vite
- Designed and implemented Django REST API and WebSocket for real-time messaging

Movie Platform(https://github.com/huy297/movie-ap)

- · Built the frontend using React and Vite
- Designed the backend with Golang, integrating Redis and MySQL for efficient data storage and retrieval

ACHIEVEMENTS

- Rank 18 in International Collegiate Programming Contest (ICPC) Jakarta Asia Regional (2024) (C++)
- Second Prize in International Collegiate Programming Contest (ICPC) Ho Chi Minh Asia Regional (2022) (C++)
- First Prize (Rank 7/400) in Vietnamese Olympiad in Informatics (2023) (C++)
- Participated in Vietnam International Olympiad Team Selection Test (2023) (C++)

SKILLS

- Languages: Python, C++, Java, Typescript
- Frameworks and Libraries: Pytorch, Tensorflow, Django, Express JS, Socket.io
- · Tools: Redis, PostgreSQL, Linux, MongoDB