Nguyen Thanh Toan

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SKILLS

Teaching
Programming
English
Responsibility
Flexibility
Teamwork
Problem Solving

EDUCATION

Binh Long Specialized and Gifted High School
Informatics team

Ho Chi Minh City University of Technology
Computer Science Major
Algorithm Club
ACM team

PROGRAMMING LANGUAGE

C/C++
Python
Go

TECHNOLOGY

Linux
Latex
Latex

ACHIEVEMENTS

- 3rd prize in VietNam national Informatics contest (2018-2019).
- Participated in national ACM-ICPC contests (2019-2020).
- Participated in national and regional ACM-ICPC contests (2020-2021).
- Participated in national and regional ACM-ICPC contests (2021-2022).
- Codeforces max-rating 1900 (candidate master).

SUMMARY

- 3rd year computer science student at Ho Chi Minh city University of Technology.
- 5 years of studying and researching computer science and programming.
- 5 years of using C/C++ and several projects done in C/C++.
- 3 years of using Python and several projects done in Python.
- Used C/C++ and Python to participated in and win several contests.
- Familiar with teaching algorithm, data-structure and programming.

EXPERIENCE

- Participated in several competitive programming contests.
- Represented highschool to compete in the national informatics contest and got third prize.
- Represented university compete in the national and regional ACM-ICPC contest.
- Developed several softwares using Python and C/C++.
- Familiar with teaching, working collaboratively.
- Familiar with working remotely.
- Taught juniors in club programming and algorithm. Some juniors went on and got many good achievements (1st prize and 2nd prize) in national informatics contest.
- Trained team members, helped them develop skills to work in programming project.

PROJECTS

MIPS Assembler and Runner *(Nov 2019 - Dec 2019)*
github.com/thanhtoan1742/MIPS-Runner

- Developed an assembler that translates MIPS assembly code.
- Developed an CLI-based application that runs programs written in MIPS.
- Built in C++.

Simplified Green House Model *(Nov 2020 - Jan 2021)*
github.com/thanhtoan1742/SimplifiedGreenHouseModel

- Developed weather simulation in a greenhouse model proposed by Vanthoor (2011) that helps monitor and predict future weather conditions in a greenhouse.
- Developed algorithm that uses simulated information to predict future weather condition (through a combination of ODE solver and artificial intelligence).
- Built in Python.

NP Video Streamer *(Oct 2021)*
github.com/thanhtoan1742/NPVideoStreamer

- Developed a video streaming application that use standard RTSP and RTP protocol.
- A server side application to serve videos and a client side GUI application to view the

- A server side application to serve videos and a client side GUI application to view the served videos.
- Built in Python.