HONG THY NGUYEN

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Education

University of Central Florida **Aug. 2022 – May 2024**
Bachelor of Computer Science *Orlando, Fl*

- **GPA**: 4.0/4.0
- **Relevant coursework**: Data Structures, Algorithms I, Object-Oriented Programming, Calculus 1 & 2
- **Achievement**: Mayor Richard T. Crotty Transfer Scholarship

Valencia College **Aug. 2019 – May 2022**
Associate in Arts *Orlando, Fl*

- **Achievement**: President's List Spring 2021, President's List Fall 2021, President's List Spring 2022

Skills

- **Programming languages:** C, Java, Python, HTML,CSS
- **Tools:** Github, Microsoft Visual Studio, Visual Studio Code, Replit, Overleaf – LaTex.
- **Soft skills:** High self-discipline and maintenance, solid critical thinking, strong work ethics, and good communicational and interpersonal skills.

Projects

Forest Program|C, Binary Search Tree, DMA, Microsoft Studio Code, Replit
https://github.com/thieng101/Double-Tree-Program.git

- Created a forest represented by the main tree. Each branch in the tree presents communities of plants, animals, and so on. Then, embedded a smaller tree for each branch represents the types of that branch
- Designed **a binary search tree inside a binary search tree** and performed various operations on it such as (search, deletion, insertion, calculation, etc.)

Monster City Tour Program|C, Sorting Algorithms, DMA, Microsoft Studio Code, Replit
https://github.com/thieng101/Monster-City-Tour-Program.git

- Designed a **sorting and checking program** that takes in the location of a monster trainer and all monsters around that trainer.
- Implemented sorting algorithms such as **merge sort** and **insertion sort** to sort monsters' locations from their distance from the trainer.

Get Check Program|C, Linked List, Queue, DMA
https://github.com/thieng101/Box-Office-Program.git

- Designed a checking program that inputs essential pieces of information from the customers (such as checking times and waiting lines) and generates an estimated check-out time for each customer
- Implemented heavily-used abstract data types called **queues using a linked list**

University Personnel Management Program| Java, Inheritance, Abstraction, Interface, Exception
https://github.com/thieng101/People-Management-Program.git

- Developed a **management program** that receives information about students, staffs, and faculties in a university, stores those information and performs sorting tasks on students based on users' requirements
- Implemented several core concepts of object-oriented programming languages which are **Inheritance Abstraction** and **Interface comparator**
- Derived a class from another class in a hierarchy of classes that share a set of attributes and methods
- Handled all exceptions from the users.