**Duy Le**

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**Education**

**GEORGE MASON UNIVERSITY** Fairfax, VA

College of Engineering and Computing

B.S. Computer Science Expected 2024

GPA: 3.4/4.0

Relevant Coursework: Software Engineering, Analysis of Algorithms, Database Concepts

**Relevant Projects**

**TOPOLOGICAL SORTING SIMULATOR (Java)**

* Engineered an internal graph representation and successfully implemented the topological sorting algorithm
* Devised and integrated a Priority Queue to optimize algorithmic efficiency
* Applied the solution specifically to handle directed graphs, showcasing understanding of graph theory

**TREE BASICS (Java)**

* Demonstrated proficiency in implementing trees through both array and linked structures
* Utilized open-addressing Hash Table techniques to enhance tree-related operations
* Implemented a transformation of k-ary trees into First-Child-Next-Sibling trees using Linked-List, showcasing adaptability and diverse problem-solving skills in Java

**TASK MANAGER (C)**

* Constructed a robust task manager within a shell environment by employing tools such as the Vim editor, GDB debugger, and VSCode for efficient development
* Designed a well-optimized data structure to manage tasks effectively
* Implemented a set of task management functions, including execution, background task handling, piping, killing, suspending, and resuming, showcasing proficiency in system-level programming and multitasking in a Unix-like environment

**Professional Experiences**

**GMU DEPARTMENT OF COMPUTER SCIENCE** Fairfax, VA

**Teaching Assistant**  August 2023 – Present

* Provide support to students in lab sections, offering clarification on Python syntax and algorithms
* Address students' inquiries on platforms such as Piazza and assist in debugging assignments
* Collaborate closely with fellow teaching assistants and professors to enhance the overall learning experience

**FINISHLINE** Fairfax, VA

**Store Supervisor**  May 2023 – August 2023

* Supported the store manager in fostering positive customer relations, overseeing inventory control, and managing administrative responsibilities
* Effectively delegated tasks to sales associates and ensured smooth day-to-day operations
* Took the lead in implementing and promoting in-store sales initiatives and best practices

**Relevant Skills**

**Technical Skills:**

* Programming Languages: Java, C, Python, HTML/CSS, SQL
* Tools: Vim, GDB Debugger, VSCode, Git
* OS: MacOS, Window, Linux
* Microsoft Office (Word, PowerPoint, Excel)

**Languages:** Fluent in English, Native in Vietnamese

**Soft Skill:** Problem solving, Team collaboration, Critical thinking