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Vivian Diep

Summary

Highly-motivated student seeking new challenges, possessing a strong work ethic, adaptability, and exceptional interpersonal skills. Demonstrated ability to work independently and rapidly acquire new skills. Interested in combining technology, design, and business marketing to effectively engage customers.

Skills

- C++ Programming
- Python Programming Expertise
- Assembly
- Document Preparation with LaTeX
- Proficient in Mandarin
- Cantonese Proficiency
- Innovative and Creative Thinking
- Management
- Analytical Problem-Solving

Education And Training

Expected in 05/2027
Bachelor Of Arts:
Computer Science
University Of Colorado Boulder
Boulder, CO

Expected in 05/2027
Minor:
Business
University Of Colorado Boulder

Expected in 05/2027
Minor:
Creative Technology And Design
University Of Colorado Boulder

Projects

Candyland Game Simulation
- Developed a text-based simulation of the Candyland board game.
- Implemented game logic, player movement, and random events using C++.
- Utilized arrays, vectors, and functions to manage game state and player interactions.

Movie Review System
- Implemented a movie review system using C++.
- Utilized a hash table for efficient storage and retrieval of movie reviews.
- Employed a priority queue to manage and display top-rated movies.

Experience

CSCI 1300 - Starting Computing
- Basic C++ Syntax and Loops: Created programs for arithmetic operations and control flow with input validation.
- String Manipulation and File I/O: Designed applications to read, process, and write data using string functions.
- Classes and Object-Oriented Programming: Developed classes for real-world objects, applying encapsulation, inheritance, and polymorphism.

CSCI 2270 - Data Structures
- Linked Lists and Recursion: Implemented singly and doubly linked lists with various operations and recursive algorithms.
- Binary Trees and Traversal Algorithms: Built binary search trees and implemented traversal methods, analyzing efficiency.
- Hash Tables and Collision Resolution: Created hash tables with separate chaining and open addressing, evaluating performance.

CSCI 2400 - Computer Systems
- Assembly Language Programming: Developed assembly programs for basic operations, loops, and conditional statements.
- Computer Architecture: Studied CPU design, pipelining, and memory hierarchy, analyzing system efficiency.
- Debugging and Optimization: Used debugging tools and optimization techniques for assembly and C programs.

Creative Tech and Design
- Poster and Web Design: Created tech and business oriented posters and web designs.