

GORDON CHEN

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EDUCATION

University of Massachusetts Amherst:

Amherst, MA

Bachelor's Degree, Computer Science (GPA: 3.98)

May 2023

Relevant Coursework: Multivariate Calculus, Linear Algebra, Programing with Data Structures, Computer Systems Principles, Introduction to Computation, Introduction to Algorithms, Artificial Intelligence

PROJECTS (<https://github.com/Gordon124?tab=repositories>)

Academic Projects:**Guess Number**

February 2020

- Created a program that can guess any number between 1000 to 9999 in 18 attempts
- Project was completed in Java with Arrays as well as LinkedList

Clue

September 2020

- Created a single player text game based off the board game "Clue"
- Made this game using C with structures, Fisher Yates Shuffle and LinkedList

Work Freak

October 2020

- Developed a program using File I/O that returns the word count for every word within an input file
- Implement Binary Search Tree to store and alphabetize word read from input file.

Image Processing

February 2021

- Manipulated pixels in each image according to user choice of filter
- Completed this project in JavaScript using higher ordered functions

Weighted 8 Puzzle Search

September 2021

- Utilized different searching algorithms such as BFS, uniform cost search, A* search, etc. to solve a weighted 8 puzzle

Personal Projects:**DengAi Predicting Disease Spread**

July 2021 – October 2021

- Predicted the weekly spread of diseases and the number of dengue cases based on environmental variables such as temperature, precipitation, and vegetation
- Utilized scikit-learn machine learning library in Python to predict weekly cases
- Program ranked in the top 30%

Course Helper

June 2021 – August 2021

- Web scraped data from rate my professor and export them to csv file for all professors teaching this semester in a chosen department
- Made use of Beautiful Soup package in Python to easily scrape data

WORK EXPERIENCE

Christmas Tree Shop, Shrewsbury, MA:

August 2018 – August 2019

Crew member (Floor Associate, Cashier, Courtesy Clerk):

- Managed a section of the store to ensure the area was up to corporate standards
- Multitasked between helping customers and managing products to maximize profit
- Worked together with other employees to maximize efficiency in helping customers
- Operated register to complete customer transactions efficiently and maintain an accurate balance
- Organized and maintained a clean and safe environment both outside and inside the store

EXTRACURRICULAR ACTIVITIES

National Chinese Honor Society, Shrewsbury High School, MA:

September 2018 – June 2019

Member

- Participated and help create multiple events to celebrate and spread Chinese culture

University of Massachusetts Amherst, Amherst, MA:

October 2019

Hack UMASS Participant

- Participated in a variety of workshops to obtain a greater knowledge on computer science

SKILLS

Microsoft Excel, Microsoft Word, Microsoft PowerPoint, Python, Java, JavaScript, C, MatLab