Alvin Joseph

Summary

Self-motivated, hard-working computer science student, seeking new challenges in coding. Dedicated to providing a highly analytical, creative mindset, as well as a professional demeanor for any opportunity presented to me**.**

Computer Experience

- Java
- C
- Python
- MySQL/SQL
- HTML
- JavaScript
- CSS
- Git
- Assembly (MIPS & x86)
- Windows OS
- Mac OS
- Linux

Education

Stony Brook University | Expected Fall 2019

Bachelor of Science | Computer Science | Cumulative GPA: 3.1

Suffolk County Community College | Fall 2017

Associates of Science | Computer Science | Major GPA: 4.0 | Cumulative GPA: 3.7

Related coursework: System Fundamentals II, Analysis of Algorithms, Data Structures and Algorithms, Computer Science III, Computer Networks, Systems Fundamentals I, Advanced Object-Oriented Programming, Object Oriented Programming

Experience

Software Developer | Suffolk County District Attorney | Hauppauge, New York | June 2018 – Present

- Produced in house application from scratch to expedite the process of searching and taking down criminals
- Created a new database and then Integrated with in house server
- Worked closely with a National Guard Analyst to get feedback to improve applications and to add more useful features

Commercial Operations Analyst Intern | Sartorius Stedim | Bohemia | September 2017 – January 2018

- Analyzed sales to create new reports and dashboards for sales representatives across North America.
- Maintained existing reports and dashboards
- Produced any requested or required data elements

Projects | https://github.com/alvinjoseph48

Criminal Database | In House Application for District Attorney

- Allows users to insert, search, delete, update, import and export: criminals, weapons and vehicles
- Used Suffolk County's police departments gang, vehicle and weapons data to draw connections
- Vehicles and weapons can be linked with specific criminals
- Notifies user when importing/inserting criminal of suspicious connections and different notifications that National Guard analyst thought would be helpful

Dynamic Memory Allocator

- Implemented functions which include malloc, free and realloc.
- Used a doubly circular linked list to keep track of the free chunks of data and used a last in first out (LIFO) policy.
- Immediate coalescing was implemented to keep memory management efficient.

Habitat For Humanity Restore

- Model-view-controller (MVC) design pattern
- A store for habitat for humanity products where employees can insert items with different parameters with an image.
- Items are maintained using a MySQL Database
- Customers can search and checkout items in their cart with credit card information

Parking garage

- Software that allows parking of different vehicles for a specified number of hours
- Uses the most efficient data structure that allows for the different operations
- Operation like searching the best spot for the vehicle uses the data structure of a stack
- Allows to remove vehicles in parking garage based on ticket number or license plate