Jared Alvarado

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Education

CLEMSON UNIVERSITY   Clemson, SC
                                                                    August 2022 – Present

Bachelor of Science in Computer Science GPA 3.51/4.00
Relevant Coursework: Software Engineering, Database Management,
Algorithms and Data Structures, Computer Security Principles

PIEDMONT TECHNICAL COLLEGE   Greenwood, SC
                                                            August 2020 – August 2022

Associate in Science GPA 3.55/4.00
University Studies Certificate High Honors - Magna Cum Laude

Work Experience

Division Student affairs   Clemson, SC
                                                            May 2024 – August 2024

Web developer Intern

- Updated and maintained existing web pages, enhancing user experience and website functionality.
- Created new web pages and features, adhering to best practices in web design and development.
- Improved website performance and accessibility, ensuring compliance with industry standards.
- Created a module to allow users to quickly exit information-sensitive pages, enhancing user privacy and security.
- Created an HTML and CSS email template based on a provided design for the VP to use in sending a specific branded message.

Projects

Quiddler Assistant in C

- Created a C program to assist players of the Quiddler card game by generating possible words from a deck of cards
- Implemented functionality to calculate all possible words that can be formed from the given letters
- Designed the program to compute the point value of each word based on the letters used
- Provided a tool to aid players in strategizing and maximizing their scores during Quiddler games

Caesar-cipher in C++

- Developed a C++ program utilizing the Caesar cipher encryption technique to secure classified documents
- Integrated a key mechanism that alters the shift amount for each character in the message during encryption
- Designed the program to both encrypt messages and decrypt previously encrypted messages using the same key
- Leveraged the ancient encryption method developed by Julius Caesar, adapting it for modern programming applications

Connect 4 in Java

- Collaborated with a team to develop an expandable connect 4 game
- Supports a board up to 100 x100 and up to 10 players
- Developed two variations of the game, one being memory efficient and one time
- Implemented an interface to efficient code off of
- Created 40 test cases to test the various functions and functionality of the game

Tiger Tix in C#

- Collaborated with a team to develop a platform for students to purchase tickets for events at Clemson University
- Implemented full CRUD operations for admins to manage events
- Enabled users to leave comments on events
- Developed user profile editing and profile picture uploading features
- Utilized .NET C#, SQL, HTML, JS, and CSS for development
- Followed a Scrum development process with 5 sprints

Technical Skills

- Languages: Java, C++, C, JavaScript, C#, PHP, Python
- Web tools: CSS, HTML, GitHub, .NET, MySQL, React, Express.js