William Alex Greenwald

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Education

University of California - Santa Barbara   Sept 2021-Jun 2025
Bachelor of Science, Computer Science (Candidate)
• Courses: Problem Solving With Computers I & II (C++), Object Oriented Design (C++)

Skills

Course taught Skills:
• General: **C++**, Makefile, Unix command line, Git+Github, Java, LaTeX
• Specific: Hashing, BSTs, Linked Lists, Processes/Threads, **Pointers**
Self taught skills: Python, HTML, CSS

Projects and Work Experience

Binary Search Tree with Value Conversion
Implemented a binary search tree class by scratch in C++, which stores int values. Input for the program is 2 .txt files holding multiple playing card suits and values (strings). My program parses through the .txt files, converts the string values into int values, and inserts into their respective BSTs. Both BSTs are then compared, and matching cards are removed from the BST. Removed cards and remaining cards are translated back from int to string and printed, with a description of if they were removed or not.

Personal Website
Purely written in HTML and CSS. Self taught skills, implemented hover animations, interactive buttons, and image positioning.

Seaworld San Diego Ride Operator   Jun 2022 - Sept 2022
Seasonal ride operator at "Shipwreck Rapids" ride. Loaded, unloaded, grouped, and monitored guests at this attraction. Skills used were teamwork, communication, and efficiency.