

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
- 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.

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. Improved teamwork, communication, and efficiency throughout th