Daniel Gamliel

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Education

University of California: Santa Barbara — 2016-2020
B.S. Computer Science
GPA — 3.21
Dean's Honors List — Fall 2017

Experience and Projects

Implementing Abstract Data Types

Used C++ class construction, data abstraction, encapsulation, and inheritance to create ADT's such as binary trees, expression trees, dynamic arrays, singley/doubley linked lists, and stacks/queues. Utilized large amounts of pointer arithmetic to manage memory on the stack and heap to allow for deep copies of ADT's.

Wikipedia WebScraping Project

Wrote a Wikipedia scraping script in Python that allowed the user to pull the refrences from any Wikipedia article. The script used the "BeautifulSoup4" and "Requests" libraries to issue a GET request to the Wikipedia servers, and pulls data using the BeautifulSoup4 library and prints the refrences from the article to console.
Optimized the algorithm to run at $O(n)$ run time

Montecarlo Method Modeling

Used Python's pseudorandom number generator to model probabilistic distributions, and used Python's cTurtle library for data visualization of the curves/distributions.

Skills

- Github
- C++
- Python
- GDB
- HTML5
- CSS
- Valgrind
- Test Driven Development
- Object Oriented Programming
- Big-O Runtime Analysis
- Function Optimization
- Web Scraping
- UNIX System Proficiency