

Daniel Gamliel

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Education

University of California: Santa Barbara ~ 2016-2020

B.S. Computer Engineering

GPA ~ 3.12

Experience and Projects

Implementing ADT's

Used C++ class construction, data abstraction, encapsulation, and inheritance to create ADT's such as binary trees, expression trees, dynamic arrays, singly/doubly 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 references 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 references 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

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|----------|-----------------------------|------------------------------|
| • Github | CSS | Function Optimization |
| • C++ | Valgrind | Web Scraping |
| • Python | Test Driven Development | UNIX System Profficiency |
| • GDB | Object Oriented Programming | Some Analog Circuit Analsys |
| • HTML5 | Big-O Runtime Analysis | Some Digital Circuit Analsys |
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Student Organization and Leadership

Engineering Student Council

Work in coordination with other engineering students to collaborate directly with the faculty of the College of Engineering to ensure a student voice in formal and informal decisions affecting engineering students.

UCSB Hyperloop Team

Working on a team with other Computer & Electrical Engineers to test sensors for our team's prototype vehicle
