Vincent A. Titterton

Computer Science Undergraduate at the University of California, Santa Cruz

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Education

University of California, Santa Cruz - 3.97 GPA	Sept 2018 - present

- Sophomore, Computer Science major

University of California, Davis - 3.8 GPA	June - July 2017

- Took summer classes while in high school: Statistics 13 and PHE 044.

Experience/Projects

Algorithms Engineering Internship - Bitbroker Labs	Feb 2020 - present

- Edtech course review and design in C++

Formula Slug - C++

- School club that builds an electric race car and competes in the Formula SAE Electric.
- Programming micro-controllers for the electronic components of the car.

Battleship - Java / Swing

- Single player battleship game with randomly spawned ship locations.
- Goal is to sink all the ships in as few moves as possible.

Tic Tac Toe with AI - Python

- Single player tic tac toe game.
- Checks all possible moves recursively to determine where the best place to move is.

Shortest Path Finder - C / Breadth First Search

- Finds the shortest path between two vertices on an unweighted graph.
- Uses Breadth First Search on an adjacency list representation of a graph.

Connected Component Finder - C / Depth First Search

- Finds the strongly connected components an unweighted, directed graph.
- Uses Depth First Search on an adjacency list representation of a graph.

Skills

Languages: Java, C, Python, C++, Assembly, JavaScript, HTML, CSS
Tools: Git, Unix, GNU Make

Relevant Course/Subject History

Coding: Object Oriented Programming, Assembly Language, Advanced Programming, Java, C, C++

Theory: Data Structures, Search/Sorting Algorithms, Graph Algorithms, Abstract Data Types, Algorithm Runtime Analysis

Math: Discrete Math, Linear Algebra, Statistics, Graph Theory, Multivariable Calculus

Awards and Honors

UC Santa Cruz Dean's Honors (x2)	2018 - 19
CMPS 12A Top 15 Final Projects	Dec 2018
Piedmont High School Honor Society	2016 - 18

Work and Volunteer History

Key Club International:	Volunteer organization (community service)	2016 - 18
Full Belly Farm:	Volunteer annually at the Hoes Down Festival	Oct 2014 - present
Math Tutoring:	Tutored students in algebra, trigonometry, calculus	2017 - 18
Election Day Poll Worker:	Set up, operated, and broke down a polling station	2018
Construction work:	Landscaping and pool construction	summer 2019
Hugh Groman Catering:	Serve food and bus dishes in high class events	June 2019 - present