Vincent A. Titterton

Computer Science Undergraduate at the University of California, Santa Cruz

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Education

University of California, Santa Cruz - 3.98 GPA   Sept 2018 - present
- Junior, Computer Science B.S.

University of California, Davis - 3.8 GPA   June - July 2017
- Summer Session classes while in high school: Statistics 13 and PHE 044.

Experience/Projects

Algorithms Engineering Internship - Bitbroker Labs   Feb - April 2020
- 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 microcontrollers for the electronic components of the car.

Connect 4 AI   - Java
- Player vs computer Connect Four.
- Uses Depth First Search / Backtracking + a non-recursive position rating method.

Path Finder   - Javascript / HTML Canvas -   Try it out
- Finds the shortest path between two vertices on a graph while avoiding barriers.
- Can select between Breadth First Search and Dijkstra's Algorithm (for diagonal moves).

Sorter   - Javascript / HTML Canvas -   Try it out
- Visual array of adjustable size which can be shuffled and sorted.
- Ten different sorting algorithms are available to choose from.

Minesweeper   - Javascript / HTML Canvas -   Try it out
- Classic Minesweeper with a board of adjustable shape and size.
- Recursive square discovery algorithm is used when an empty square is uncovered.

CruzHacks 2020   - MLH hackathon hosted at UCSC

Skills

Languages: Java, C, Python, C++, Assembly, JavaScript, HTML, CSS
Tools: Git, Unix, Vim, 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 (x4)	2018 - 20
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
Hugh Groman Catering:	Serve food and bus dishes in high class events	June 2019 - present