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EDUCATION University of California, Los Angeles

Bachelor of Science, Computer Engineering

Expected Graduation: June 2021

GPA: 3.76/4.00

Relevant Coursework: Data Structures, Algorithms, Computer Architecture, Digital

Design, Graphics, Linux, Linear Algebra.

AWARDS AND HONORS

Upsilon Pi Epsilon, International Computing Honors Society.

Tau Beta Pi, National Engineering Honors Society.

Leta Kappa Nu, International Honors Society of the IEEE.

June 2019 - Present June 2019 - Present Dean's Honor List.

Winter 2018, Spring 2019

COMPUTER SKILLS

Languages & Software: C++, Python, Verilog, C, HTML, CSS, JavaScript, Adobe Creative Suite, \LaTeX .

Operating Systems: Mac OS X, Windows, Linux.

PROJECTS

Tunnelman (C++)

- Created a 2-D video game on Mac where player digs through earth to find gold.
- Used inheritance and polymorphism to organize class hierarchy for characters, enemies, items, actions, and sounds. Utilized various data structures to organize game items and states.
- Implemented search algorithms for enemies to find player in a maze-like map.

Malloc (C)

- Implemented malloc, realloc, and free functions in C from scratch.
- Optimized and balanced space usage with speed. Organized virtual memory at the byte-level, using headers and footers, to efficiently allocate memory.

Stacker (Verilog)

- Programmed the popular arcade game, *Stacker*, for Xilinx FPGA board. Wrote Verilog modules for game mechanics, music, score, display, etc. Attached auxiliary devices such as VGA for display and piezoelectric buzzer for music.
- Project chosen by professor for use as a model project for future classes.

WORK EXPERIENCE

Instructor

June 2019 - Present

Internal Drive, Inc.

- Teach intensive programming classes at UC Irvine to middle and high school students
- Classes include Python coding, robot programming, use of Raspberry Pi.

Learning Assistant

January 2019 - Present

Math and Physics Departments, University of California, Los Angeles

- Teach multivariable calculus and physics to students in college-level classrooms.
- Conduct various exam review sessions with over 100 attendees each.

LEADERSHIP

Director of Internal Affairs

May 2018 - May 2019

UCLA Club Sport - Dragon Boat

- Designed various apparel items for teammates, including shirts and jackets, using Adobe CS. Designed yearbook and quarterly newsletter.
- Raised over \$2000 for the team by designing and selling fundraising t-shirts.
- Organized and directed annual Alumni Day.