

ADAM HAMDEN

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EDUCATION

University of Southern California

August 2018 - May 2022

Bachelor of Science in Computer Science, Viterbi School of Engineering

GPA: 3.96

Bachelor of Arts in Applied Math, Dornsife School Letters, Arts, and Sciences

Minor in Business Finance, Marshall School of Business

- USC Trustee Full Tuition Scholarship (top 2% of incoming class)

South Pasadena High School, South Pasadena

August 2014 - June 2018

Class Valedictorian

GPA: 4.00

EXPERIENCE

USC Robotics Research, Interaction Lab

December 2018 - Present

- Led development of device-free dynamic projector interaction system using depth cameras to extract skeletal pose along with RANSAC for surface planar segmentation under Dr. Maja Matarić.
- Designed data collection, storage, and analysis pipeline for long-term in-home studies. Resulted in a mobile Docker solution utilizing custom logging protocol through MySQL AWS S3 servers.
- Deployed topic-based SQL logger onto the Python Package Index where it has received over 1000 downloads.

USC Viterbi TA, Algorithms and Theory of Computing (CSCI 270)

January 2020 - May 2020

- Developed exam and homework material for a 240 student foundational algorithms course that extended lectures into Dynamic Programming, Network Flow, and Computational Complexity Theory.
- Organized discussions where students were given a forum to review concepts and ask meaningful questions.

Blockchain @ USC, President

May 2019 - Present

- Created a comprehensive technical and investment related blockchain curriculum delivered through seminars as Lead Curriculum Specialist and advised USC's blockchain minor course design.
- Hosted first ever Blockathon at USC where over 150 students presented unique decentralized applications.
- Organized panel discussions with academics and industry experts on the role of blockchain in society beyond cryptocurrencies and the need for a trustless network.

USC Viterbi TA, Discrete Mathematics (CSCI 170)

August 2019 - December 2019

- Enhanced student learning experience for a 280 student discrete methods class by managing a clinic session of 10-15 students where lecture concepts were reinforced.

SKILLS

Languages: C++, Python, Java, HTML/CSS

Development: Git, MySQL, SQLite, Docker, Robotic Operating System (ROS), AWS

Other Competencies: NumPy, SciPy, CMake, GTest, AJAX, JS

ACADEMIC PROJECTS

The Pen and the Keyboard: A Comparative Reframing of Text and Code

October 2019 - Present

- Wrote and contributed multiple chapters to a progressive book concept spearheaded by Professor Dana Milstein on the close relationship between writing and programming. (*currently in early publishing stage*)

Moonelight, CodeDay LA Best Overall Project

November 2016 - March 2018

- Developed two Android based mathematics application designed to assist students in high school level calculus, chemistry, physics, AP Calculus BC, as well as multivariable calculus concepts.