

Education

University of California, Berkeley — Candidate for B.A., Computer Science
GPA: 3.7/4.0

Expected May 2019

- *Relevant Coursework:*

Structure & Interpretation of Computer Programs	Introduction to Artificial Intelligence
Data Structures	Computer Security
Discrete Mathematics & Probability Theory	Designing Information Devices & Systems I
Great Ideas in Computer Architecture	Introduction to Communication Networks
Efficient Algorithms & Intractable Problems	

Armijo High School (Fairfield, CA)

Graduated June 2016

GPA: 4.0/4.0; SAT: 2330/2400; Class Rank: 1/559

- *Activities:*
Math Club, Science Club, Academic Decathlon, National Honor Society, Wind Ensemble, Varsity Tennis
- Valedictorian in class of 559 students
- International Baccalaureate Diploma Recipient

Experience

Ubiquitous Swarm Lab, UC Berkeley — Undergraduate Researcher

June 2017 – Present

- Developed virtual reality environments simulating robot swarms in Unity for user studies examining human-swarm interactions.
- Implemented flocking algorithms, Oculus Rift hardware integration, motion tracking, and data collection with scripting using C#.

Secondary Student Training Program, University of Iowa — Researcher, Adrian Elcock Lab

June – July 2015

- Compared the efficiencies of algorithms for Brownian dynamics simulations of folded proteins as part of the Department of Biochemistry in the Carver College of Medicine.
- Ran protein folding simulations on computer clusters using Linux and created macros for data analysis using Visual Basic.

California State Summer School for Mathematics and Science, UC Davis — Research Assistant

July – August 2014

- Studied the effects of parameters in mathematical models on the wave propagation of electrical impulses through neuronal rings using R.

Activities

Virtual Reality at Berkeley — Unity Developer, ISAACS

September 2017 – Present

- Implemented Oculus Rift hardware integration and panoramic video streaming in Unity with scripting using C# as part of the Immersive Semi-Autonomous Aerial Command System (ISAACS) team.

Computer Science Undergraduate Association

January 2017 – Present

- Organized tech company infosessions and workshops for building skills in various frameworks and libraries.

Honors

National Merit Scholarship, National Merit Scholarship Corporation

March 2016

- Awarded annually to about 2,500 high-achieving high school seniors.

Skills

Python, Java, C, C#, Visual Basic, R, Linux, Unity, Git, \LaTeX