

## Education

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University of California, Berkeley (Berkeley, CA)

August 2018 — December 2020

- B.A. (Integrative Biology - Honors)
- Major Track: Human Biology and Health Sciences
- Minor: Persian Language – Department of Near Eastern Studies

College of San Mateo (San Mateo, CA)

August 2016 — May 2018

- Major: Biological Sciences
- Overall GPA: 3.94/4.0

## Publications and Presentations

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Utilizing Proof of Stake (PoS) Consensus Algorithm for Developing a Native Blockchain Coin - Whitepaper

<https://medium.com/@hmoein/using-proof-of-stake-pos-consensus-algorithm-on-the-erc20-platform-for-a-native-school-coin-aadc60c709cf>

Linux and Cloud Services Projects – Tutorial for Implementing OpenVPN Protocol on Raspberry Pi Using Elliptic-curve Cryptography

## Work Experience

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UC Berkeley

September 2019 – Present

### President of STEM Research Outreach

Overseeing the mission of our student organization, this is to complement the academic endeavors of students who plan to attend a 4-year institution pursuing a STEM field. Via consultation with various campus entities including the Office of Undergraduate Research & Scholarships (OURS), we host tours of Berkeley labs, conduct conferences, and visit STEM centers in the area.

<https://sro.berkeley.edu/>

College of San Mateo

August 2016 – May 2019

### STEM Tutor

Tutored and assisted students and my peers in subjects including: general biology, general and organic chemistry, physics, calculus, and linear algebra.

GoGo Tennis Academy

September 2016 – July 2018

### Tennis Instructor

As one of the coaches of this academy, I taught Tennis to students in the age group 7 – 14 in private and group sessions.

College of San Mateo

September 2017 – May 2018

### President of STEM Club

Managed and organized independent research projects for college and high school students while integrating different disciplines. Directly consulted and worked with the student senate, professors, and the honors project committee to implement projects and presentations.

College of San Mateo

January 2017 – May 2018

**Fulltime CSM Sustainability Committee Member**

I was one of the 4 students on the board of the College of San Mateo Sustainability Committee, which worked with faculty and professors to implement projects such as water audits, educational presentations, and installment of reusable water bottle stations on campus, composting, and partnership with Bee Campus USA to preserve endangered native bees.

American Red Cross

August 2016 – May 2018

**President of Red Cross Club**

Successfully organized blood drives, raised capital for disaster relief and disaster readiness to assist and alleviate the suffering of those affected in the face of emergencies while providing educational services. Managed and lead a growing team of 27 students in coordinating on- and off-campus events.

Desmos Inc

January 2015 – January 2016

**Technical Translator**

I assisted in translating the website and mobile application of Desmos in Persian (Farsi).

## **Volunteer and Extracurricular Activities**

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Hackathon IO

September 2018 – May 2019

**Blockchain Volunteer**

*Provided guidance to students for developing blockchain projects, engaged in group-based pitching ideas of utilizing this technology for educational institutions, and implemented whitepaper models.*

American Red Cross

March 2016 – September 2017

**Technical Support and Data Analyst**

*Planned and coordinated Red Cross events while assisting in overseeing their technical infrastructure including troubleshooting their devices.*

Mills Hospital

March 2017 – April 2018

**Medical Volunteer**

Greeted patients at the hospital entrance and assisted sick and elderly people who required assistance using wheelchairs. Transported patients to various hospital facilities including the ER, Cancer Center, and dialysis facility and talked to patients to put them at ease and provided emotional support.

American Cancer Society

November 2017 – January 2018

### **Special Event Planner**

Worked with the San Mateo chapter of the American Cancer Society to plan and schedule events including fundraisers and educational camps.

Mehr Animal Shelter

June 2016 – May 2019

### **General Volunteer**

I assisted in gathering funds and supplies for stray and disabled dogs in Iran. Organized events and provided communication for adopting animals in need of a new home.

## **Honors & Awards**

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- **Cal Alumni Association Scholarship (2019):** I was a recipient of this scholarship, which recognizes students committed to community service.
- **Rotary Club of San Mateo Scholarship (2019):** recognized as one of 15 students demonstrating community service and leadership roles in the community.
- **The Leadership Award Scholarship (2018):** recognized as an undergraduate student at UC Berkeley for demonstrating innovative, initiative-driven leadership impacting the community.
- **The Achievement Award Program Scholarship (2018):** I was selected as one of the 49 recipients of the 2018 cohort of this program.
- **UC Berkeley Transfer Scholarship (2018)**
- **Dean's List (2018):** On Dean's List at College of San Mateo during all of the four semesters of studying there.
- **Red Cross Volunteer Recognition Award (2017):** received this award due to my contribution to the American Red Cross as a volunteer and for founding and organizing the Red Cross Club at the College of San Mateo.
- **Susan Duckworth Memorial Fund Scholarship (2017 & 2018):** I was one of 60 students being awarded this scholarship at the College of San Mateo.
- **Phi Theta Kappa Membership (2017):** This lifetime certificate was awarded to me as recognition of my academic performance at the College of San Mateo.
- **John H Grady Scholarship (2016):** I was the only recipient of this scholarship due to my community service activities and academic merit.
- **Rotary Club of San Mateo Community College Scholarship (2016):** Received a scholarship due to my academic standing in Aragon High School.
- **AP Scholar Award (2016):** I received AP Scholar Award from The College Board, due to my scores on the AP Calculus AB exam.
- **Senior Scholar-Athlete Award (2016):** Received this award due to my performance in Aragon High School's Varsity Tennis Team.
- **California Scholarship Federation Life Membership Award (2014):** Due to my high grades in high school only two years after moving to the US, I received the Life Membership Award from California Scholarship Federation.

## OTHER INFORMATION

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**Other Languages:** Farsi (bilingual proficiency), Spanish (limited working proficiency)

**Computer/Programming Skills:** Python, HTML, CSS, and JavaScript along with the React library for designing front-end user interface modules.