

Fall quarter/semester 2022Application ID: **9118464**Submitted Date: **Nov 29, 2021**Email Address: **alimomennasab3@gmail.com****About you****Personal information**

First / Given name	Ali
Last / Family / Surname	Momennasab
Preferred first name	Ali
When were you born?	December 03, 2003
Where were you born?	Irvine, CA United States

Contact information

Home address (permanent)

Address line 1	2909 Deolinda Drive
City	Hacienda Heights
State	California
ZIP code	91745
Country	United States

Mailing address

Address line 1	2909 Deolinda Drive
City	Hacienda Heights
State	California
ZIP code	91745
Country	United States
Primary phone number	6263938922
Phone type	Cell/Mobile
Authorized for text messages	Yes
Alternate phone number	6263694012
Phone type	Home/Other
Authorized to share contact information	Yes

Citizenship & residency

Country of citizenship	United States
Social security no / ITIN	3499
Are you an enrolled member of an American Indian or Alaska Native tribe (U.S.)?	No
By the time you attend UC, will you have graduated from a California high school?	Yes
By the time you attend UC, will you have attended a California school for three or more years during grades K through 12?	Yes

Demographics**Ethnicity / Ancestry**

Do you consider yourself Hispanic or Latino?

No

Southwest Asian and North African

Iranian

Gender and sexual orientation

How do you describe yourself?

Male

What do you consider yourself to be?

Heterosexual or straight

Your background

What language did you learn to speak first?

English and another language

What was the other language?

Persian (Farsi)

Dependent of a U.S. military veteran or service member

No

Your household

Who lives with you at your permanent home address?

Two parents

What was the total income earned for year 2021 by the parents or legal guardians listed above?

\$ 186882

How many people were supported by this income?

4

Parent information**Parent 1**

What is this parent's relationship to you?

Father

Is this parent living?

Yes

What is this parent's highest level of education?

Four-year college/University graduate

Did this parent graduate within the last five years?

No

What is this parent's current job status?

Employed

Current job

Transportation

Current job title

CEO

Current job approx. years

26

First / Given name

Hossein

Last / Family / Surname

Momennasab

Email address

hmomennasab@gmail.com

Parent's address

(Same as Applicant's Address above)

Parent 2

What is this parent's relationship to you?	Mother
Is this parent living?	Yes
What is this parent's highest level of education?	Four-year college/University graduate
Did this parent graduate within the last five years?	No
What is this parent's current job status?	Employed
Current job	Other
Current job title	Supervisor
Current job approx. years	1
First / Given name	Shahpar
Last / Family / Surname	Veranloo Ghoochan
Email address	shahpar_v@yahoo.com
Parent's address	(Same as Applicant's Address above)

Campuses & Majors**UC values**

UC values	Accepted
-----------	----------

Level

Term	Fall 2022
Level	Freshman

Choose campuses

☐ UC Berkeley
☐ UC Irvine
☐ UCLA
☐ UC San Diego

Choose majors

Campus	Major
--------	-------

UC Berkeley
Alternate major

Electrical Engineering and Computer Sciences, B.S.
College of Engineering

Berkeley does not offer alternate majors.

UC Irvine

Computer Science, B.S.
Donald Bren School of Information and Computer Sciences

Computer Science and Engineering, B.S.
Interdisciplinary Studies

UCLA

Computer Science, B.S.
Henry Samueli School of Engineering and Applied Science

Computer Science and Engineering, B.S.
Henry Samueli School of Engineering and Applied Science

UC San Diego

Computer Science, B.S.
The Jacobs School of Engineering

CSE: Computer Engineering, B.S.
The Jacobs School of Engineering

UC San Diego college ranking

Rank

College

- | | |
|---|---------------------------|
| 1 | John Muir College |
| 2 | Earl Warren College |
| 3 | Sixth College |
| 4 | Seventh College |
| 5 | Thurgood Marshall College |
| 6 | Revelle College |
| 7 | Eleanor Roosevelt College |

Academic History

7th & 8th grade

Courses

Subject Area	Course Name	Term Period
Mathematics I	Mathematics I	Full Year
Has International Experience		No

High schools

GLEN A WILSON HIGH SCHOOL
HACIENDA HEIGHTS, CA

School code	052694
Specialized curriculum	Career Pathways/Academy
Grading system	A B C D F
Term system	Semester
Attended	September 2018 - May 2022
Grades attended	9th grade 2018 - 2019 (Has summer courses) 10th grade 2019 - 2020 (Has summer courses) 11th grade 2020 - 2021 12th grade 2021 - 2022
School you will graduate from:	Yes
Degree, diploma or certificate	High/Secondary School Diploma
Date received or to be received	May 2022

9th grade

GLEN A WILSON HIGH SCHOOL
HACIENDA HEIGHTS, CA

2018 - 2019 academic year

Subject area/Course category	Course name	Hnrs	Term	G1	G2	G3	G4	Language name
B-English	English 1 (H)	NH	Semester	A	A			
C-Mathematics II	Honors Integrated Mathematics II	NH	Semester	B	A			
D-Biology / Life Sciences	Biology (H)	NH	Semester	A	A			
E-LOTE Level 1	Spanish 1	NH	Semester	A	A			Spanish
G-Mathematics - Computer Science	AP Computer Science Principles (AP)	AP	Semester	A	A			

2018 - 2019 summer session

Subject area/Course category	Course name	Hnrs	Term	G1	G2	G3	G4	Language name
A-World History/ Cultures/ Hist. Geography	World History	NH	Semester	A	A			

10th grade

GLEN A WILSON HIGH SCHOOL
HACIENDA HEIGHTS, CA

2019 - 2020 academic year

Subject area/Course category	Course name	Hnrs	Term	G1	G2	G3	G4	Language name
B-English	English 2H	NH	Semester	A	CR			
C-Computer Science	AP Computer Science A	AP	Semester	A	CR			
C-Mathematics II	Honors Integrated Mathematics II	NH	Semester	A	CR			
D-Physics	AP Physics 1 (AP)	AP	Semester	B	CR			
E-LOTE Level 2	Spanish II	NH	Semester	A	CR			Spanish

2019 - 2020 summer session

Subject area/Course category	Course name	Hnrs	Term	G1	G2	G3	G4	Language name
F-Visual Arts	Digital Graphics I	NH	Semester	A	A			

11th grade

GLEN A WILSON HIGH SCHOOL
HACIENDA HEIGHTS, CA

2020 - 2021 academic year

Subject area/Course category	Course name	Hnrs	Term	G1	G2	G3	G4	Language name
A-U.S. History	AP United States History (AP)	AP	Semester	A	A			
B-English	AP English Language and Composition (AP)	AP	Semester	A	A			
C-Calculus	AP Calculus AB (AP)	AP	Semester	A	A			
D-Physics	AP Physics C: Mechanics (AP)	AP	Semester	B	A			
D-Engineering	Honors PLTW Digital Electronics (PLTW)	HL	Semester	A	A			
E-LOTE Level 3	Spanish 3	NH	Semester	A	A			Spanish

12th grade

GLEN A WILSON HIGH SCHOOL
HACIENDA HEIGHTS, CA

2021 - 2022 academic year

Subject area/Course category	Course name	Hnrs	Term	G1	G2	G3	G4	Language name
A-Civics / American Government	AP Government and Politics United States (AP)	AP	Semester	NO	PL			
B-English	AP English Literature and Composition (AP)	AP	Semester	IP	PL			
C-Calculus	AP Calculus BC (AP)	AP	Semester	IP	PL			
C-Statistics	AP Statistics (AP)	AP	Semester	IP	PL			
D-Chemistry	AP Chemistry (AP)	AP	Semester	IP	PL			
D-Engineering	Honors PLTW Engineering Design and Development (PLTW)	HL	Semester	IP	PL			
G-History / Social Science	Economics H	NH	Semester	IP	NO			

Colleges attended while in high school

None reported

College courses taken in high school

None reported

Additional information

California State Student ID Number
7191877116

Test Scores

ACT & SAT

ACT

Date taken December 2021
 ACT ID number 209222783

Subject	Score
Composite	35
English	36
Mathematics	35
Reading	35
Science	32

SAT Subject Tests

I have no test score information to report

AP exams

Exam name	Date taken	Score	Planned date
Calculus AB	06/2021	5	
Calculus BC			05/2022
Chemistry			05/2022
Computer Science A	05/2020	5	
Computer Science Principles	05/2019	4	
English Language and Composition	05/2021	5	
English Literature and Composition			05/2022
Physics 1	05/2020	3	
Physics C: Mechanics	06/2021	4	
Statistics			05/2022
U.S. Government and Politics			05/2022
U.S. History	05/2021	4	

IB exams

I have no test score information to report

English language proficiency test

I have no test score information to report

International exams

I have no test score information to report

Activities & Awards

Activities/Awards

1. Extracurricular activity

Activity name

Secretary of Chess Club

Activity description

Secretary of 30+ member club. Coordinate biweekly meetings, log meeting hours, mentor and play chess with newcomers, and organized 3+ fundraisers. Have improved chess and collaborative skills. Independently play a lot of chess for the club. Maintain friendly, supportive environment that encourages and uplifts all members, regardless of skill level.

Grade participation

10th grade

11th grade

12th grade

Time commitment

3.5 hours per week

36.0 weeks per year

2. Extracurricular activity**Activity name**

Treasurer of Young Democratic Socialists of America (YDSA)

Activity description

As a member in 11th grade, I participated in meetings and learned political theory. As treasurer in 12th grade, I organize our funds and continue to learn political theory. I'm not a political person, but I joined YDSA to educate myself politically with a non-biased perspective from a background of zero political knowledge.

Grade participation

11th grade

12th grade

Time commitment

1.5 hours per week

36.0 weeks per year

3. Extracurricular activity**Activity name**

Machine Learning Research Publication

Activity description

Independently wrote and published a 16-page research paper titled "Machine Learning for Mars Exploration" describing current applications of machine learning in Mars exploration and proposing further applications. Published in peer-reviewed journal and arXiv, available at <https://arxiv.org/abs/2111.11537>. Learned machine learning through this.

Grade participation

12th grade

Time commitment

8.0 hours per week

12.0 weeks per year

4. Extracurricular activity**Activity name**

Individual IOS App Development

Activity description

Developed 3 IOS apps:

1. ColdCombatter - Bluetooth social distancing for COVID-19, not in App Store (see add. info)
2. simpleTipper - tip calculator, 7.3k downloads in App Store
3. JARVIS Vision - help visually impaired & color-blind people identify objects with machine learning by pointing phone cameras at them, 5.5k downloads in App Store.

Grade participation

10th grade

11th grade

12th grade

Time commitment

8.5 hours per week

52.0 weeks per year

5. Extracurricular activity**Activity name**

StartOnSwift Website Founder

Activity description

Coded & launched startonswift.com, an educational website providing engaging and simple Swift and IOS app development tutorials for beginners. Conceived after struggling with bland & confusing tutorials when I was a beginner in app development. Amassed over 100,000 views over 30 articles. Writing the articles also improved my coding skills.

Grade participation

11th grade

12th grade

Time commitment

3.0 hours per week

52.0 weeks per year

6. Extracurricular activity**Activity name**

Founder of Iranian American Youth Organization (IAYO)

Activity description

Founded IAYO (<https://iranianamericanyouthorg.com>) to teach the Iranian American youth about their heritage through 37 blog posts, Persian recipes, & language tutorials with a total of approx. 132k views. Currently planning fundraiser to donate masks to poor Iranian villages. IAYO helped me gain a deeper understanding and love of my own heritage.

Grade participation

11th grade

12th grade

Time commitment

4.5 hours per week

52.0 weeks per year

7. Award or honor**Name of the award or honor**

Honors with Distinction

Level of recognition

School

Type of award

Academic

Grade level when awarded

9th grade

10th grade

11th grade

12th grade

Award requirements

Maintaining above a 4.0 GPA after each grading period (6 weeks).

What you did to earn award

I achieved this award by maintaining a GPA above a 4.0 throughout every grading period of my high school career.

8. Award or honor**Name of the award or honor**

AP Scholar with Distinction

Level of recognition

National

Type of award

Academic

Grade level when awarded

12th grade

Award requirements

Granted to students who receive an average score of at least 3.5 on all AP Exams taken, and scores of 3 or higher on five or more of these exams

What you did to earn award

I spent a lot of time and effort studying the material of my AP classes to achieve high scores on my AP tests, and as a result, qualified for this award.

9. Other coursework**Course name**

GAWHS Computer Science Pathway

Course description

The pathway, offered at Glen A. Wilson High School and consisting of the AP Computer Science Principles and AP Computer Science A classes, introduced me to the basics of the Java programming language. My love for coding & software development, which I continue to pursue with my websites and apps, was sparked and encouraged by the pathway.

Grade participation

9th grade

10th grade

Time commitment

5.0 hours per week

36.0 weeks per year

10. Extracurricular activity**Activity name**

Sports: Waterpolo, Swim, and Tennis

Activity description

In my freshman year and summer, I played junior varsity waterpolo and a mix of varsity and JV swim. During my sophomore year and summer, I played JV tennis until the pandemic ended the season. These activities allowed me to maintain good fitness & develop a sense of teamwork & collaboration, but I had to stop these due to lack in class space.

Grade participation

9th grade

10th grade

Time commitment

12.0 hours per week

47.0 weeks per year

Scholarships & Programs**Scholarships****Ethnicity, national origin or religion**

- First-generation American
- Iranian descent

Family circumstances and relationships

- First-generation college student

School or geographic affiliation

- California born

Support programs

None selected.

Personal Insight**Personal insight questions**

Every person has a creative side, and it can be expressed in many ways: problem solving, original and innovative thinking, and artistically, to name a few. Describe how you express your creative side.

Plastered around the walls of my room are childhood scribbles of various sports cars. I wasn't any van Gogh, but nothing brought me more joy than spending hours planning out my next Ferrari with the perfect color scheme, rims, and flame decals. With each scrawl of the crayon, the vision of the sleek racer in my mind would come to life, stroke by stroke.

The physical crayons I used to hold with grubby fists have since evolved into digital crayons, with the colors of Xcode syntax

highlights, to draw beautiful lines of code. When I began to create my own apps, I noticed that app development, like the dictionary data type I studied while taking Swift programming courses, connects both the analytical "key" and creativity "value" of myself. For example, my tip calculator app plays with elements of shadows and skeuomorphic design. I made note of humankind's tendency to find pleasure in symmetry when designing the UI of my image recognition app, and utilized psychology to pick the shade of blue providing the most soothing effect to users of my COVID-19 distancing app. The app development process also includes collaboration, where I'll ask my friends to select the most pleasurable logo or name. Despite these analytical approaches, my development process occasionally returns to the younger me that scribbled Ferraris with pure glee and spontaneity, embracing my instinctive creativity by picking an unusual color scheme or font. Line by line, my visions for an app will come to life on the pixels of my laptop.

Bridging my analytical and creative sides through app development is exciting to me, and I constantly strive to improve my programming skills to nurture this intersection. More importantly, app development funnels my imagination towards a real impact, rather than on drawings that won't leave the walls of my room. I plan to continue combining my coding skills and innovation towards developing accessible and impactful apps at a UC, where I'll take full advantage of CS classes to strengthen my coding ability, and hope to collaborate with the brilliant students around me to enhance my development process.

Describe the most significant challenge you have faced and the steps you have taken to overcome this challenge. How has this challenge affected your academic achievement?

Cats or dogs?

In a Persian household, the correct answer to that age-old question is neither. Four-legged pets meant torn-up tapestries and dirtied rugs, so all I knew of them while growing up was that they are "kasif" (dirty).

This changed upon discovering two soaking wet and shivering kittens underneath my backyard grill. Despite my parent's instilled warnings of kasif animals, I procured the pair a steaming plate of kookoo sibzamini. They met my peace offering with hissing, cautious sniffing, then devourment.

Retrospectively, I shouldn't have fed them Persian food, but I didn't know better with zero animal caretaking experience. My background was code and chess - always predictable and explicable, a vast contrast from the arbitrary beings that cats are. The program I coded to execute outcome Y would do so without fail. The chess opening I employed resulted in a win (mostly). Confusingly, my pshpshpsh's for attracting their attention would rarely work without any discernible pattern.

No matter if their randomness was unfamiliar and I would make my house kasif, I was determined to care for the little guys.

During the process of becoming a cat dad, my browser history turned from Java syntax and fianchetto chess openings to cat-care articles and YouTube tutorials. Quarantine free time let me learn their ways quickly, but transitioning into junior year piloted struggles with balancing schoolwork and extracurriculars while the troublemakers cannonballed onto my keyboarawe2g'jr?tw8y45w, mauled rodents outside my window, and forced me to corral them to safety when coyotes roamed at night. Despite this, I pushed myself towards achieving academic success while prioritizing their well-being.

There were occasional frustrations because the indifferent felines, who wouldn't realize how badly I'd rather be sleeping than searching our neighborhood at 1 AM for them, didn't appreciate the time and effort spent on caring for them rather than pursuing my interests. However, I am now grateful for the cats entering my life because raising them from ferality taught me patience, work ethic, time management, and most importantly, love. Besides, nothing is more gratifying than knowing you're the reason behind their purrs and full bellies.

I think about an academic subject that inspires you. Describe how you have turned this interest inside and/or outside of the classroom.

I love machine learning.

There's something so exciting about feeding a computer raw data for it to analyze and learn from what it eats. In a sense, training a machine learning algorithm to constantly grow and improve feels similar to the way I've raised the seven stray cats I foster. The behavioral growth towards friendliness I witnessed in my once-feral cats whenever I fed them chicken (their favorite!) reflects the growth of my algorithms that become more precise and effective with each new batch of data I feed them.

My machine learning obsession began with recommended YouTube videos of machine learning university lectures. A machine learning YouTube rabbit hole led to videos of JPL implementing sophisticated machine learning frameworks on Mars rovers, and as someone whose favorite movie is "The Martian", I was fascinated beyond belief. With this interest, I began to study extensively about the niche field of machine learning in space, poring over countless research papers that documented Mars rovers machine learning frameworks in the early hours with bleary eyes, in the shower while trying not to drown my phone, and under the dinner table with glances to a hidden phone to bypass my parent's "no phones at the table" rule. All of this learning led to the creation of a paper of my own that proposed machine learning techniques towards conquering Mars, including to source the mysterious methane that might suggest bacterial life on the red planet, or to analyze weather patterns to support eventual Mars human colonization.

What excites me the most about machine learning is its versatility. It could be used to detect the early stages of cancer in a hospital, or navigate Mars rovers 244,080,000 miles away from that hospital. The endless applications excite me to pursue collaborations in the future with different fields, whether they be medical, educational, economical, or industrial, to create a positive impact on the world with machine learning. Even though I fell in love with machine learning because of space, perhaps it would be better to stay grounded and help humanity before moving on to the Martians.

What have you done to make your school or your community a better place?

I often hear reluctance when I encourage people to join our chess club because many assume them to be contemptuous and intimidating to newcomers.

When my best friends and I founded our school's chess club as chess beginners wanting to learn more, we strived to avoid this misconception by creating a culture that unifies skilled and new players for an enjoyable and uplifting learning experience.

In our club, there's no such thing as losing. That isn't to say that we forbid competition, as that would suppress the ability to improve from each match. The mindset we promote is that a loss is always an opportunity to grow, which is why I encourage our members to analyze the board after losing and determine where their game went awry, the same way I used to as a chess beginner after getting demolished by advanced players. This retrospection always results in a learning experience that improves chess ability, no matter the player's skill level. However, this valuable lesson extends far beyond chess. Teaching our members the ability to reflect upon a mistake or failure turns any shortfalls into learning experiences, leading to achieving success the next time.

Along with this mindset, our club's chill environment is attributed to the club's desire to make everyone feel at home. When free from secretary duty, I'll offer a game to shy kids or newcomers without a chess partner. The hours we'll spend on the mahogany board transforms the introverts into happy, comfortable, and outgoing chess masters, who then get the confidence to approach and teach other rookies about chess. This heartwarming cycle ensures that anyone interested in chess at our school can enter room A1 without fearing being a newcomer lacking experience, and satisfy their curiosity and

eagerness to pursue chess.

I'll miss the tight-knit and comforting environment of my school's chess club, but aim to bring that exact spirit to dorms, study groups, and undoubtedly the chess club of my future university. Hopefully, I can contribute to a welcoming community that teaches lessons extending beyond the board, and encourages everyone to play chess without fear.

Additional comments

Caring for my family is a cornerstone of my identity. Because my mother and father work for the majority of each weekday, I spend a lot of my week taking care of seven previously-feral stray cats, who we consider to be part of our family. On a daily basis, I feed, clean, supervise, and make sure that Betty, Oreo, Pom-Pom, Tiger, Ginger, Maple, and Glasses remain safe and in good health. I also spend some weekday hours tutoring my younger brother on his mathematics and computer science courses. Additionally, I have a grandmother who spends half of the year at my house and half of the year with relatives. When she lives with us, I take the majority of the responsibility as her caretaker, where I'll help her with chores, keep her company, and supervise her wellbeing for a majority of every day.

Although my application presents my achievements and successes, I want to use the rest of this section as an opportunity to share with you one of my failures. ColdCombatter, the first IOS mobile app I developed, utilizes Bluetooth technology to accurately determine the distance between a user and nearby personal devices to enforce proper social distancing. It was conceived as a result of the spiking COVID-19 cases in my area, and was the product of two months spent studying the Swift programming language and app design, poring over CDC articles for information COVID-19 and other various illness, researching color psychology to pinpoint the perfect color scheme, exploring Bluetooth RSSI signals, and constant testing, designing, and revising, over and over and over again, to achieve the most precise Bluetooth distancing formula. I was excited to finalize the app and push it to the App Store in hopes of contributing, even if in a small degree, towards fighting the pandemic.

A week after my initial App Store submission, I was heartbroken to see a message of denial citing App store's rule 5.1.1, stating that any app related to the COVID-19 pandemic must only be from government organizations, health related NGOs, etc. Unless I was magically going to turn into one of those, there was no possible way to publish my work to the world. No matter how many resubmissions and appeals I attempted, my hard work that I hoped would result in a positive impact on the world was reduced to absolutely nothing.

Still, I am glad for this failure for numerous reasons. The app allowed me to dip my toes into the world of app development, which I ended up falling in love with, and the denial taught me to not dwell on failure for the sake of disappointment in how things didn't go your way. Rather, learn from your failures and continue, undeterred from your past pitfalls, with the knowledge you've gained. This lesson allowed me to successfully develop and publish my next two IOS Apps, simpleTipper and JARVIS Vision.

Verified information

Academic review

Subject (A-G) requirements

The table below shows the number of subject requirements that you are missing based on the information you provided in "Academic history" and "Test scores."

Subject	Number of missing requirements
History / Social sciences	0
English	0
Mathematics	0
Science	0
Language other than English	0
Visual and performing arts	0
College-prep electives	0

You've met all the subject requirements.

State of legal residence

Is your Father / Parent 1 a U.S. citizen?	Yes
Has your Father / Parent 1 been physically present in California for the last three years, excluding brief absences for vacation purposes?	Yes
Is your Mother / Parent 2 a U.S. citizen?	Yes
Has your Mother / Parent 2 been physically present in California for the last three years, excluding brief absences for vacation purposes?	Yes
Have you been physically present in California for the last three years, excluding brief absences for vacation purposes?	Yes

Sign & release

Release authorizations

I authorize the University of California to release application information, including copies of my application and test scores, to outside agencies that award scholarships.

I authorize the University of California to release to my school or college counselor/counseling office (or sponsoring agency) information regarding my application, including test scores, transcripts and other supporting documents, as they relate to my admission and scholarship status.

I authorize the University of California to release to my parents/legal guardian or spouse information regarding my application, including test scores, transcripts, and other supporting documents, as they relate to my admission and scholarship status.

Electronic signature and Statement of Integrity

I certify that my application and all information submitted during the admission process — including my academic record, personal statement, awards, activities, and supporting materials — are my own work, factually true and correct, and honestly presented. I understand that I am responsible for the accuracy of the application and that the University of California may verify the information.

I further understand that withholding information or giving false information or other misconduct prior to enrollment as described in the UC Policy on Student Conduct and Discipline (<http://policy.ucop.edu/doc/2710530/PACAOS-100>) may be cause for denial of admission, withdrawal of an admission offer, registration cancellation, expulsion, or revocation of a University of California degree.

Electronic signature provided on: Nov 29, 2021