Antonio Passos

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Education

Van Nuys High School Van Nuys, CA

STEM Magnet *Aug 2024 — Present*

- GPA: 4.0 (U), 5.325 (W); Class Rank: 2/474
- SAT: 1550 (790 Math, 760 Reading and Writing), PSAT: 1500 (760 Math, 740 Reading and Writing)
- Completed coursework: AP Chemistry (5), AP Computer Science Principles (5), AP World History (5), AP Cyber: Security (5), AP U.S. History (4), AP Physics 1 (5), AP English Language (5), AP Art History (5), AP Calculus BC (5)
- In progress coursework: AP Statistics, AP English Literature, AP U.S. Government and Politics, AP Environmental Science, AP African American Studies
- College coursework: Linear Algebra at WLAC (in progress), Chicano Studies at LATTC (A)

Extracurricular Activities

Software & Web Development May 2022 — Present

- Collaborated with the UCLA Humanities Department to develop a full-stack online dictionary and learning app for Yaathe, an Indigenous language spoken in Brazil (https://yaathe.net)
  - Digitized one of the language's only available dictionaries through manual scanning, AI-assisted OCR, and structured data extraction; implemented fuzzy dictionary search and user authentication
- Independently designed and developed func.social, a full-stack event ticketing platform featuring Stripe payments, event host payouts, user authentication, and QR-code ticketing
  - Designed all UI/UX and implemented the frontend and backend from scratch

Captain, Academic Decathlon Jun 2025 — Present

- Lead the Honors Division team, organize after-school practices, and tutor students across subjects
- Led team to 2nd place in LAUSD Division 1 and its 11th consecutive appearance at CAD State Competition where the team placed 21st in California

President, Student Task Force Dec 2025 — Present

- Lead the school's chapter, survey students about human rights, and collaborate with LAUSD representatives to propose district-wide human rights policies
- Independently developing a club website featuring educational blog posts, meeting resources, and weekly student polls to identify prominent human rights concerns on campus

Captain, Cross Country, Track & Field Aug 2024 — Present

- Team captain, medaled at Rosemead XC Invitational and 1600m VML League Finals; member of the VML championship-winning 4x400m relay team
- Fourth-fastest mile time in school history (4:49 PR)

Pianist Feb 2020 — Present

- Advanced sight-reader and piano accompanist
- 2 seasons with Austin Chamber Music Center performing in chamber ensembles
- Six years of private lessons focused on classical repertoire including Chopin, Ravel, Grieg

Tutoring Jul 2025 — Present

- Certified tutor in Pre-Algebra, Algebra, Chemistry, Computer Science, SAT Prep on https://schoolhouse.world
- Peer tutoring in Academic Decathlon leading lessons in math, music theory, and science

Soccer Sep 2022 — Sep 2025

- Three seasons as a paid referee for children aged 5 to 10 in the North Austin Soccer Alliance
- Assistant coach to an AYSO soccer team for players with special needs for two seasons

Programs and Research Experience

California State School for Mathematics and Science (COSMOS) Jul 2026
University of California, Los Angeles
- Cluster 8: Bit by Bit, Mathematics and Technologies of the Information Age
- Completed a four-week residential program taught by UCLA electrical engineering faculty
- Studied advanced applied mathematics topics including linear algebra, abstract algebra, Fourier analysis, signal processing as well as coding in Python with NumPy
- Developed a final project integrating real-time video transmission alongside ADS-B aircraft tracking on software-defined radios

Youth Leadership Institute Jun 2026
Hispanic Scholarship Fund
- Selective (5-6% acceptance rate) 5-day residential program at Loyola Marymount University for top Latino and Hispanic students across the nation
- Participated in leadership seminars, professional networking, and college and career development workshops

Innovation Challenge Finalist Apr 2026
Los Angeles Unified School District
- Developed an anonymous mental health app designed to integrate with existing district resources
- Gave a presentation to district representatives in Downtown LA

Gump Station Indigenous Language Conference Attendee Apr 2026
UC Berkeley Gump Station
- Attended a conference about Indigenous language preservation with artificial intelligence researchers
- One week of workshops and discussing ethical technological use in Indigenous communities

UCLA Clark Library Conference on Linguistics Apr 2026
UCLA Humanities Department
- Created a research poster to present early findings in an Indigenous language preservation project
- Presented to language teachers during a conference at the UCLA Clark Library

Awards

National Merit Semifinalist, National Merit Scholarship Corporation Sep 2026

AP Scholar with Distinction, College Board July 2026

LAUSD Innovation Challenge Finalist, LAUSD Apr 2026

LADWP Science Scholarship Winner ($1,500), Academic Decathlon May 2026

Academic Decathlon, CAD, LAUSD Mar 2026
- State: Gold medalist for Division 1 Interview (1000/1000, perfect score), Bronze medalist for Super Quiz, team's top scorer
- Regionals: Highest overall scorer for Division 1 Honors and team top scorer. Gold medalist for Math and Science, Silver medalist for Social Science and Music, Bronze medalist for Art

Skills & Interests

Majors of Interest
- Computer Science and Linguistics, Computer and Electrical Engineering, Applied and Computational Mathematics

Languages
- Native proficiency in Portuguese; conversational proficiency in French (3 years of high school classes)

Programming
- Proficient in Rust, TypeScript/JavaScript, HTML, CSS
- Experience with Linux, Bash, React, Tailwind, Next.js, AI APIs (OpenAI, Mistral, Anthropic, OpenRouter)