

HENRY MARTINEZ

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<https://www.linkedin.com/in/hnrymrtnz/> | <https://github.com/hnrymrtnz> | <http://henrymartinez.me/>

EDUCATION:

California State University, Northridge

Expected graduation May 2025

Bachelor of Science in Computer Science, Minor in Data Science

Current GPA: 3.71

Honors Program | Dean's List: Fall 2021, Spring 2022

RELATED COURSEWORK:

Algorithms & Computer Programming | Data Structures & Program Design | Computer Architecture & Assembly Language | Linear Algebra | Calculus I & II | Physics: Mechanics

SKILLS:

Languages: Java | Python | HTML | CSS | JavaScript | MIPS Architecture

Software: Github | Git | Microsoft Office (Word, Excel, Powerpoint) | VSCode

Interests: Full-stack Web Development | Software Engineering | Data Science | Web Scraping | A.I. | UI Design

EXPERIENCE:

NASA L'SPACE Proposal Writing and Evaluation Experience (NPWEE)

December 2022 - Present

- Working on a 10-week program in a multi-disciplinary team to develop proposals for new technologies and concepts that enable NASA objectives and enhance mission capabilities.
- Gaining experience in the process of writing, reviewing, and scoring proposals through the lens of a NASA reviewer.

PROJECTS:

NASA Great Lunar Expedition for Everyone (GLEE)

October 2022 - Present

- Researched with a team of 6 students from 3 universities on a NASA-funded lunar project, with the goal of establishing a lunar mission for our Lunasat, a tiny programmable spacecraft.
- Programmed the Lunasat using C++ and the Arduino IDE, collecting temperature, magnetic field, and inertial measurements from the spacecraft's environment that will aid in conducting our lunar mission.

Personal Website / Portfolio

October 2022 - Present

- Created a website from scratch using HTML and CSS, hosted by Github Pages and Jekyll, that showcases my skills, projects, coursework, resume, and contact resources.

Convert and Encode Integers Web Application

October 2022 - Present

- Designed and developed a web application in an Agile environment with a group of 5 students using HTML, CSS, and JavaScript, to aid future students in understanding material for computer architecture classes, specifically format encodings and integer conversions.

Web Scraping using Java and Related Libraries

September 2022

- Developed a web-scraping program using Java and Java libraries (Apache Maven and Jsoup) which tells the user which album and artist were at the top of the Billboard 200 chart for any given date and for how many weeks, using data from Billboard's website HTML.

Object-oriented Programming / Data Structure Java Projects

September 2022

- Generated Java data structure classes/methods from scratch such as linked lists and binary tree ADTs that mimicked their Java library counterparts using object-oriented programming.
- Designed and implemented a Java program that converts user-generated music sheet text files into audio playback, utilizing OOP and data structures. Features include the ability to reverse, repeat, and adjust the tempo of the generated audio.

ORGANIZATIONS & ACTIVITIES:

- IEEE - Eta Kappa Nu (Honor Society) - NASA L'SPACE Academy - CSUN Badminton Club - GE Honors Program
- Tau Beta Pi (Honor Society) - CSUN ASME - CSUN Vex Robotics
- STEM Advantage Scholar Program - CSUN Archery Club - CSUN Esports Club

LANGUAGES: **English** - Full Professional Proficiency | **Spanish** - Full Professional Proficiency