Xavier Garcia

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EDUCATION

California Polytechnic State University, San Luis Obispo (Cal Poly)

Bachelor of Science in Computer Science   GPA: 3.51
Expected Graduation: June 2025

Awards: Cal Poly Dean's List: Fall 2021, Winter 2022, Fall 2022, Winter 2023, Spring 2023
President's Honors List 2022-23
Cal Poly Merit Scholarship 2021, 2022, 2023

SKILLS and TECHNIQUES

Programming Languages: Python, C, Java, HTML

Programs and Applications: Visual Studio Code, IntelliJ Idea, PyCharm, Sublime Text, GitHub, Command Prompt, Microsoft Suite, Google Suite

Relevant Coursework: Introduction to Computing: Game Design, Fundamentals of Computer Science, Data Structures, Project-Based Object-Oriented Programming and Design, Intro to Computer Organization, Systems Programming, Discrete Structures, Linear Analysis I, Writing Arguments about STEM

LABS and PROJECTS

Course Projects and Labs

- Created simple video game where user controls character running through forest, avoiding obstacles that damage them and collecting mushrooms to increase their health using JavaScript
- Used Java to create a calculator program that would read math problems with large values from a text file and place integers in linked lists to conduct the proper operations
- Utilized Java to design an object-oriented video game where the player survives as long as they can while ghosts chase them, incorporating user input, A* pathing strategy, and factory design method
- Developed program that parallelizes the conversion of Bitmap file pixels to grayscale and encodes them into a text file using Huffman nodes in C
- Utilized HTML and CSS to create a personal website following HTML standard design to enhance Web development and GitHub skills

LEADERSHIP and INVOLVEMENT

Involvements: Cal Poly Supplemental Workshops, Cross Cultural Experience Orientation Program, Pilipino Cultural Exchange, Multiracial Students' Association, Society of Hispanic Professional Engineers, Chinese Student Association

Workshop Facilitator **Academic Skills Center**, Cal Poly   September 2023 - Present

- Work with professors and other student leaders to develop activities synchronous with course curriculum to enhance students' abilities in Calculus
- Facilitate lesson plans and group discussions to foster a collaborative learning environment for students of various backgrounds and skills

Social Affairs, Current Events Officer **Multiracial Students' Association**, Cal Poly   December 2021 – June 2023

- Invented and designed the Multiracial Spotlight series both on Instagram and during general meetings consisting of in-depth segments on well-known multiracial people of interest

Cross Cultural Experience Orientation Leader **Cal Poly New Student and Transition Programs**   September 2022

- Attended over fifty hours of leadership, diversity, and inclusion training
- Worked with other leaders to plan activities and facilitate small group discussions