

# Xavier Garcia

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Personal Website: <https://xaviers-personal-website-git-main-xgarcia17s-projects.vercel.app/>

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## EDUCATION

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

Bachelor of Science in Computer Science

GPA: 3.59

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

Al Rodrigues Memorial Scholarship

## SKILLS and TECHNIQUES

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**Languages & Frameworks:** Python, C, Java, TypeScript, Next.js, Node.js, React, HTML, CSS, RISC-V ASM, MIPS

**Programs and Applications:** MongoDB, GitHub, Visual Studio Code, IntelliJ Idea, PyCharm, Sublime Text, Xubuntu (Linux), Command Prompt, Microsoft Suite, Google Suite

**Relevant Coursework:** Fundamentals of Computer Science, Data Structures, Project-Based Object-Oriented Programming and Design, Systems Programming, Discrete Structures, Design & Analysis of Algorithms, Computer Architecture, Linear Analysis I, Writing Arguments about STEM

## LABS and PROJECTS

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### Course Projects and Labs

- 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 in C that parallelizes the conversion of Bitmap file pixels to grayscale and encodes them into a text file using Huffman nodes
- Utilized HTML, CSS, Typescript, Next.js, and MongoDB to create a personal website following standard design practices to develop my understanding of full stack engineering and to enhance Web development and GitHub skills

## LEADERSHIP and INVOLVEMENT

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**Additional Involvements:** Pilipino Cultural Exchange, Society of Hispanic Professional Engineers

*Developer* **Hack4Impact**, Cal Poly

October 2023 - Present

- Work with a team of developers to create software according to client specifications and requirements for non-profits local to the San Luis Obispo region
- Attend weekly standup meetings with my team and present developed features to the development team

*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