

# Javier Medina Bueno

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## EDUCATION

### California Polytechnic University

*Bachelor of Science in Computer Science*

San Luis Obispo, CA  
Expected December 2026

**Relevant Coursework:** Object Orientated Programming Java (in progress), Programming Methodology, Intro to C++, Assembly in NASM, Discrete Structures

### Oxnard College

*Associate of Science, Mathematics, and Physics*

Oxnard, CA  
May 2024

**Awards/Honors:** UCSB ESTEEM Scholarship

**GPA: 3.93**

**First Generation Student**

## SKILLS

**Programming Languages:** Java, R, C++, NASM assembly, HTML

**Software:** Visual Studio, IntelliJ, Git Hub, R Studio Cloud, Microsoft Excel, Word, PowerPoint

**Language:** Conversational in Spanish

## WORK EXPERIENCE

### UCSB Smithsonian/ ¡ERES! SUMMER Program (STRI)

Santa Barbra, CA/Panama

Data Science research in tropical ecology using R-studio

Jul 2024 – Aug 2024

- Conducted field research in Panama, analyzing ecological data on bird species and environmental factors.
- Imported, cleaned, and analyzed field data using RStudio Posit Cloud to address specific research questions related to biodiversity.
- Developed map-based visualizations and spatial data representations using RStudio Posit Cloud for environmental research.
- Built strong networking skills through professional interactions with staff, peers, and the broader scientific community.

### Oxnard College STEM Center

Oxnard, CA

Tutor/Mentor

Jan 2023 – May 2024

- Tutored and mentored students for 5 hours a week in subjects including Computer Science, Calculus, and Physics
- Collaborated with fellow tutors to develop effective strategies for addressing diverse student needs and abilities.

## PROJECTS

### Big Number Arithmetic Calculator (Java)

Oct 2024

- Implemented linked list-based integer representation to handle numbers beyond standard data type limits.
- Designed and coded addition, multiplication, and exponentiation operations using efficient algorithms.
- Wrote and executed unit tests to ensure the correctness and efficiency of operations.

### Personal Website (HTML, CSS)

Sept 2024

- Built a multi-page website with a clean, minimalist design using HTML5 and CSS3, focusing on accessibility and user experience.
- Utilized Git for project version control, enabling collaboration and efficient management of code updates.
- Structured the website for search engines by using semantic HTML elements, such as <nav>, <main>, and <section>.

## LEADERSHIP AND PROFESSIONAL DEVELOPMENT

### Computer Science Club, Oxnard College

Oxnard, CA

Board member: Treasurer

Aug 2023 – May 2024

- Co-founded and developed the Computer Science Club to foster a supportive community for Computer Science students.
- Organized and led events, including a guest speaker event featuring a software engineer from Slack, attended by 40+ students and faculty.
- Led workshops on C++, cryptography, binary numbers, and other core Computer Science concepts, enhancing student understanding.

### Society of Hispanic Engineers – Cal Poly SLO

Sept 2024 – Present

### Trio Achievers – Cal Poly SLO

**Interests:** International travel, aerospace engineering, automation, autonomous systems, and chess