

VICTORIA SUN

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github.com/victoriasunshine portfolio : victoriasun.xyz

Education

University of California, Irvine

Bachelor of Science in Computer Science

Sep. 2025 – June 2027

Irvine, CA

Irvine Valley College

Associates with a focus in Natural Sciences

Aug. 2023 – May 2025

Irvine, CA

GPA: 3.86

Experience

Bay Honors Symposium

Researcher, Presenter, Author — Paper

November 2025 – Present

Berkeley, CA

- Soldered a Muon Detector based on the MIT Cosmic Watch Project with a 70% accuracy to the literature value of Muons per second. Used C++ and Python to process code.
- Specialized in tech support and writing for the group. Wrote the abstract that got us accepted into Bay Honors.
- Led the presentation group in constructing the slides, drafting outlines for the presentation, and organizing practice speeches leading up to the conference. Achieved an honorable mention in the Heslet Scholar Award, an award for the best project in the conference, based on abstract and presentation. Honorable mention is given to five groups.
- Authored a paper detailing the project procedures, experiment, and outcome as well as the theoretical/technical basis of all components. Wrote the entire draft, which will be reviewed by other members and submitted for publication.

Irvine Valley College: Mathematics, Engineering, Science Achievement

Physics, Math, CS Tutor

February 2025 – August 2025

Irvine, CA

- Proctored quizzes for classes of 30 and gave live feedback to students. Quizzes in this class were collaborative and I was permitted to give incremental pushes in the right direction to encourage independent thought.
- Held private office hours in which I helped students review lecture or textbook material, prepare for tests, and taught methods in finding and fixing bugs in code.

Honors Transfer Council Conference

Researcher

September 2023 – April 2024

Riverside, CA

- Analyzed the differences in runtime of C++ versus Python with solving numerical integration problems.
- Presented poster at UC Riverside HTCC.

Projects

Productivity Extension | *Java, CSS, HTML, JavaScript*

August 2024-Present

- Used Chrome Developer tools and Java to create a Chrome extension that tracks and organizes the tabs that are currently open on the users window.
- Self taught basics of DOM manipulation and extension development.
- Collaborated with a close friend on aspects of the project, using Git to push commits and communicate to each other. Learned how to branch efficiently and cleanly.

Foundation Fix | *Python — Paper — Github*

September 2025-December 2025

- Developed a computer vision-based color calibration system using OpenCV to extract and correct skin tone measurements under varying lighting.
- Implemented color space transformations (RGB → XYZ → CIE Lab) and reference-based lighting correction using a Macbeth ColorChecker.
- Authored a full engineering design report documenting requirements, iterations, algorithms, circuitry, and system tradeoffs.

Skills

Languages/Frameworks: C/C++, Java, HTML, CSS, JavaScript, Python, R

Developer Tools: VS Code, XCode, R Studio, JetBrains, Git, Github

Spoken Languages: English, Chinese (Conversational)