

Chu Yi Aaron Herr

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Education

B.S., Computer Science

Fall 2025

San Francisco State University, San Francisco CA

A.S., Computer Science

Clovis Community College, Clovis, CA, GPA 3.13

Software Technical Skills – C/C++, Java, Python, CMake, Data Structures and Algorithms, Object Oriented Software Design Patterns, Agile/Scrum Methodologies, Operating Systems, Multithreaded/Concurrency development, Unix/Linux environments, Valgrind/Calgrind, virtual memory analysis, Networking protocols

WORK EXPERIENCE

University of California Berkeley, Berkeley, CA

September 2022 –

Present

- Using C/C++, using the Qt framework and it's QMake build system.
- Developed multiple worker threads that stream data to the docking windows.
- Working with worker threads containing a single source process for streaming data to the user.
- Gave informative information about current updates of ongoing tasks, that were given.
- Greatly showing my curiosity, and eagerness to learning in a quick and fast-paced environment, while still pursuing my degree.

Project Experience

Game Engine in OpenGL | GitHub

Fall 2023 - Present

- Utilizing the GPU and the OpenGL for implementing platform specific rendering API's
- Driven with inspiration developing this game engine to work with complex systems design implementations.
- Implemented orthographic camera controls, rendering API calls in OpenGL that utilize the GPU.

6502 Emulator | GitHub

Fall 2023 - Present

- Reversed engineered an 8-bit processor called the 6502.
- Emulated how virtual ram and rom read, write data to and from virtual memory.
- Developed the adder functions for the ALU as part of the emulator to do basic arithmetic operations.

CLUB/ACTIVITIES

SJSU Robotics Club | GitHub

Fall 2023 – Present

- Worked in the Intelligence Systems division, collaborating and working with my team on the autonomy side of building the rover.
- Developed using python, and various machine libraries such as Numpy to efficiently improve the rover for robotics competition.
- Worked in fixing the GPS locking connection to the satellite.