Glenn **Wysen**

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About me

I was born and raised in Seattle, WA. After graduating from Roosevelt High School I traveled down the coast to begin my undergraduate education at UC Berkeley (Go Bears!). That's where you'll find me now: spending my third year in the Bay taking classes, playing professional Ultimate Frisbee, and hanging out with friends.

Areas of specialization

Computer Graphics • Planetary Astronomy • Data Structures • Machine Learning • Game Design • Astronomical Data Visualization

Projects

Built my own website from scratch which can be accessed at glennwysen.me

Built a path-tracer in C++ to render scenes with intricate lighting. My write up for this project can be found on my website.

Coded a PAC-MAN agent that used reinforcement learning to win any game of PAC-MAN. A link to this can also be found on my website.

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Work Experience

Fall 2019 — **Undergraduate Developer**
Skyportal · Berkeley, CA
Worked to develop infrastructure and polish the front-end of the Skyportal website. My work involved developing ways to store images on a database from which they could be loaded onto the website. Additionally, I worked on a new user interface that looked cleaner than the beta version. More information regarding the ongoing project can be found at https://github.com/skyportal/skyportal. I used the skills obtained over this semester to build my own personal website which can be found at glennwysen.me.

Summer 2018 — **Solar Physics Lab Assistant**
Air Force Research Lab · Albuquerque, NM
Worked in the solar physics department studying the effects of solar irradiance variation on Thermosphere/Ionosphere models. My work involved using the IDL programming language to analyze solar irradiance data from several NASA satellites in order to build an accurate atmospheric model. This model is currently being used by the US Air Force to keep their low earth orbit satellites safe. Additionally, I compiled hundreds of thousands of data points into visuals for future users of the model.

Summer 2017 — **Camp Counselor**
YMCA Camp Orkila · Orcas Island, WA
Worked with youth (ages 8-15) at a summer camp to develop their voices by leading open discussions and activities. Had to effectively communicate with up to 50 other staff members on a daily basis. Additionally, I worked for a week driving and maintaining the camp boat which carried kids to and from the island.

Education

2021 — **Computer Science and Astrophysics B.A. (In Progress)**
UC Berkeley · Berkeley, CA
GPA: 3.5

Languages

Python ●●●●●
Java ●●●●●
C/C++ ●●●●●
Go ●●●●○
HTML, CSS ●●●●○
Latex ●●●●○
Javascript ●●●○○
SQL ●●●○○

Relevant Coursework

CS *Computer Security, Foundations of Computer Graphics, Introduction to Artificial Intelligence, Designing Information Devices and Systems I and II, Machine Structures, Data Structures, The Structure and Interpretation of Computer Programs.*

Astro *Planetary Astrophysics, Science and Society, Introduction to Astrophysics I and II, Multivariable Calculus, Discrete Mathematics and Probability Theory, Electromagnetic Waves, Optics, Relativity, Heat Transfer, Mechanics, Wave motion, Quantum Physics*