# Charles Lesser

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## Education

### University of California, Santa Cruz

Santa Cruz, California

2023 - Current

BS in Computer Science: Game Design

• GPA: 3.9 (in progress, expected graduation 2027)

Experience \_\_\_\_\_

**SET Lab, UC Santa Cruz** Santa Cruz, California

Research Assistant Oct 2023 - Present

• Researches multi-user VR interfaces for scientific applications in civil engineering and marine science.

- Collaborated with Soga Research Group at UC Berkeley to develop VR prototypes for evacuation simulation.
- Developed multi-user VR games with projectile mechanics and deployed to the Meta Quest Store.

Dive n' Surf Redondo Beach, California Summer '21, '22, '25

Rental/Repair Specialist

• Inspected, maintained, and repaired scuba equipment.

- Cleaned and filled scuba tanks with compressed air or oxygen enriched air.
- Trained and gave guidance to new employees.

Mira Costa High School Manhattan Beach, California Aug 2022 - Jun 2023

**Teaching Assistant** 

- Taught students basics of programming and prepared them for the AP computer science tests.
- Programmed the prototype digital hall pass system for Mira Costa High School.
- Led the virtual reality booth at the Mira Costa High School STEM fair.

## Skills

**Programming Languages** C#, Javascript (Three.is, WebXR, Node.is), C++, Java, Python, C, Assembly

Unity (Mapbox, Photon, OpenXR), Dear ImGui, Unreal, Twine **Engines** 

**Game Dev Skills** Game AI, Multi-user spaces (Photon), XR Interaction, UI/UX design

**Programming Skills** Collaboration (Github), Machine Learning, Data Structures, Algorithms, Computer Architecture, UNIX

## Selected Publications\_

Eye Ball: Gazing as a Dilemma in a Competitive Virtual Reality Game

Michael Lankes, Samir Ghosh, Charles Bishop Lesser, Katherine Isbister

Extended Abstracts of the CHI Conference on Human Factors in Computing Systems, 2024, New York, NY, USA

**Projects** 

**Shattered Wake** Shattered Wake is my current project, a strategy RPG made in Unity and scripted with C#. It implements procedural

map generation, data persistence, and modular scripts.

Arcana is a card-battler that played with tarot cards and fixed progression. All game systems are dynamic to allow for Arcana &

future development. This game was made in Unity using C#.

Interests

**Water Polo** Water Polo is a way to stay healthy as well as drive my competitive spirit. I play for UCSC's water polo club team.

**Tabletop Role-playing Games** Narrative storytelling in TTRPGs has allowed me to expand my creative and design capabilities significantly.

**Scuba Diving** Working in a dive shop and becoming PADI rescue certified allowed me to explore the underwater world.

**OCTOBER 8, 2025**