

# Yutaro Kiyota

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Github: <https://github.com/ykydh/Portfolio>

## Projects

### Lunar Lander Game (C++ / SFML)

- Designed and implemented a **physics-based 2D Lunar Lander simulation** in C++ using SFML, incorporating real-time motion updates, gravity, thrust control, and collision detection against procedurally generated terrain.
- Developed and optimized **sprite rendering, terrain generation algorithms, and game loop architecture**, ensuring smooth frame updates and responsive player controls.

### Socket Programming Project (C++)

- Engineered a **TCP socket communication system** in C++ with a custom packet management protocol, enabling reliable data transmission through **buffered 4096-byte message framing with prepended size headers**.
- Built a **modular client-server architecture**, abstracting socket initialization, connection management, and data exchange into reusable classes.

## Experience

### Missouri University of Science & Technology Satellite Research Team

#### Command and Data Handling Developer

*Aug 2023 – Present*

- Developed a Bluetooth communication protocol in C++ and refined GPS methods to enable reliable CubeSat-to-ground station data transfer.
- Designed and debugged a multithreaded Ethernet communication module to support concurrent data flow between subsystems.
- Diagnosed and resolved a critical flight code issue using GDB, applying systematic debugging strategies to restore system stability.

### Missouri University of Science & Technology Residential Life

#### Senior Resident Assistant

*Aug 2024 – Present*

- Supported residents facing academic/mental challenges by providing resources and empathetic communication.
- Organized and executed community programs (chess tournaments, movie nights, art and craft night) to strengthen resident engagement.

### Seibu Prince Hotels – Tokyo, Japan

*Lounge Server Mar 2023 – Jul 2023*

- *Delivered high-level customer service to international clientele, facilitating reservations, providing cultural guidance, and recommending improvements that enhanced guest satisfaction.*
- Proposed process improvements in service and amenities, enhancing guest satisfaction.

## Skills

C++

Python

SQL

Data Structure

Algorithm

Leadership

Team Building

Assertive Communication

## Education

### B.S. in Computer Science

Missouri University of Science & Technology

*Aug 2023 – Present*

**GPA: 4.0/4.0 | Dean's List**

## Languages

**English**

*Professional working proficiency*

**Japanese**

*Native*