

## Skills

### Software Engineering

Experience with embedded and low level applications of the Rust programming language

Rust, C/C++, Python, Go, Java, Web Dev, Backend, Embedded

### Hardware Engineering

FPGA, PCB, Fabrication, VCSi, HaDes-V, RV32

### Astrophysics

Cosmological Simulation, Supermassive Blackholes, Research, Computer Vision, Machine Learning

## Interests

### Server Infrastructure

Home Lab, NAS, Networking, Inference

### Cybersecurity

Vulnerability Analysis, Physical Systems Security, Metasploit

### Reverse Engineering

Modding Frameworks, Bindings, Mappings, IDA Pro

## Certifications

### Udemy Machine Learning and Astronomy Courses

CySA+, Network+, A+ CompTIA

More available via request

# Hitaishi (Hitu) Chillara

Student Researcher | Software/Hardware Engineer | Astronomer

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## Experience

### Stealth Startup

Mountain View, California

Research Engineer

2025 - Present

- Engineered robust NN pipelines and ML training infrastructure
- Built scalable analytics infrastructure to track performance metrics across production systems, driving data-informed operational improvements.
- Integrated computer vision and telemetry pipelines with hardware/software teams, boosting system reliability and diagnostics in the field.

### Freelancer

2023 - Present

- Developed custom software solutions for various clients, meeting their specific needs and requirements.
- Gained valuable experience in understanding client needs, translating them into technical solutions, and delivering projects on time and within budget.
- Managing finances with commissioning.

### ESL Gaming Online Inc.

Software Engineering Intern

October 2022 - July 2023

- Developed features for the popular Minecraft Java game client using Java.
- Collaborated with experienced developers to ensure code quality and adherence to best practices, and a team work ethic.
- Contributed to a large codebase, improving functionality and user experience.

## Volunteering

### FLL

April 2024 - November 2024

Guided younger students in the FIRST Lego League, helping them learn and apply STEM concepts through hands-on robotics projects, while fostering teamwork and problem-solving abilities.