

# Lennart Stremper

## Undergraduate Student - Computer Science - Illinois State University

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📍 Downers Grove, Illinois

🌐 LinkedIn

🐙 GitHub

## Education

### B.S. in Computer Science (Minor in Physics)

#### Illinois State University

📅 Aug 2023 – Present

📍 Normal, Illinois

🎓 GPA: 3.97

### High School Diploma

#### Downers Grove North High School

📅 Aug 2019 – May 2023

📍 Downers Grove, Illinois

🎓 GPA: 4.1

## Experience

### SULI Intern

#### SLAC National Laboratory

📅 Jun 2025 - Aug 2025

- Designed user interfaces for controlling and monitoring vacuum setup in Python
- Designed and implemented Tracking and Path prediction algorithm for laser alignment for use in Inertial Confinement Fusion experiment

### Independent Study

#### Illinois State University

📅 Aug 2025 - Present

- Developed an AI pipeline to remove furniture from room images using deep learning techniques and large datasets
- Collaborated with a professor to design, fine-tune, and optimize AI models

## Activities

### Game Development Club

#### Illinois State University

📅 Jan 2024 - Present

📍 Normal, Illinois

- Implemented game play mechanics
- Collaborated with teammates to implement the vision of the game
- Helped making games in Unity using C#
- Previous Project: Crustation Quest

## Language Proficiency

- Fluent in German
- Experience in French

## Skills

### Programming Languages

C/C++, Python, C#, Java

### Environments

- Linux and Windows
- Git
- Visual Studio
- Vulkan

### Libraries

- NumPy
- OpenCV
- Matplotlib
- PyTorch
- TensorFlow
- GLM

## Projects

### Convolution Calculator

📅 Dec 2025

🐙 GitHub

- Developed a CUDA-accelerated image convolution application using NVIDIA's parallel computing toolkit, implementing optimized tiled convolution kernels for real-time image processing, including Gaussian blur and edge detection filters.
- Optimized GPU memory access and performance by leveraging shared memory and efficient kernel launch configurations.

### Snake Game

📅 Mar 2024 - Apr 2024

🐙 GitHub

- Led group in development of the game
- Set up Web socket to communicate between different physical devices
- Coded the game launcher in C++ and integrated it with the Java Game
- Helped program game server to run on an ESP32 device using C