

Elijah Galahad (Weng Haoyang)

I am a first-year undergraduate student in Yao Class (founded by [Andrew Yao](#)), Institute for Interdisciplinary Information Sciences, Tsinghua University.

Education Experience

High School @ [Zhenhai High School of Ningbo](#)

- Physics Competition: Gold Medal of 37th CPhO (Chinese Physics Olympiad), selected for APhO (Asian Physics Olympiad).

University @ [Tsinghua](#), [IIS](#)

- Taken a number of courses, below I list out the ones I feel most rewarding:
 - Introduction to AI: where I received lectures from researchers over the globe and (was forced to) read ai papers from all fields. It is the first course that learned about the field of mlsys which I am currently most interested in.
 - Deep Learning: where I learned various models and architectures including classification models, generative models, sequence models, and concepts in meta learning, zero shot, etc, and trained most of them for the first time. And I also undertake I large AI project that fix closed eyes in group photos by inpainting using gan, which will be released soon.

Skills

Progamming Languages

- C/C++: I am familiar with C/C++, having experience in building an oop based project that contained 4000+ LOC from scratch, to extract frames from video, using ffmpeg's `libav` library.
- Python:
 - I have rich experience developing with python, and am aware of many mechanism differences that distinguish python from C/C++.
 - I have some experience building deep ai models, like ebm, flow, vae, gan, lstm and transformers, relatively little experience in profiling model memory usage, dealing with gradient explosion.

- I have very little experience in django.

Relevant Interests

- Operating Systems: I am interested in operating systems, and is familiar using Arch Linux.
- ML Systems: I am also interested in the mechanisms and differences behind ml systems such as pytorch and tensorflow (though I don't like the latter because I don't know how to use it), and are enchanted by the sophisticated design and ease of use.
- Robotics: I am interested in both hardware and software parts of robotic arms, smart cars, and robots!