

Tianshu (Terry) Yin

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Software and Web Engineer

EDUCATION

Shanghai World Foreign Language Academy (High School) GPA: 41/42	Sep 2021 – Jun 2024
Carnegie Mellon University Pre-College Program: National High School Game Academy	Jul 2023 – Aug 2023
Georgia Institute of Technology (College) : (Bachelor of Science in Computer Engineering)	Aug 2024 – Now
Main Academic Awards: AIME 11/15, Bpho Top Gold (global top 100), USACO Gold	Oct 2022 – Feb 2023

INDUSTRIAL EXPERIENCE

TalkMeUp Inc.	May 2024 – Aug 2024
<i>Software Engineer Intern</i>	Remote, US
<ul style="list-style-type: none">Led a team of interns to test company websites, successfully identifying and resolving cross-browser and multi-device bugs, ensuring a seamless user experience.Enhanced backend efficiency by rectifying code issues and optimizing video loading methods, resulting in improved loading speed through increased port openings and global access via mirrored servers across Asia.Designed and developed a user-friendly UI using React for an AI chatbot, integrating it with a Python-based backend and training the AI on interview data to significantly enhance its performance.Streamlined user data organization from MongoDB using a Python tool, facilitating easier future access and analysis; developed an interactive web interface for managers to visualize user and team activity data in real-time.Collaborated with project managers in weekly meetings to drive continuous product improvement and ensured compatibility between the AI backend and web frontend through comprehensive post-launch functionality testing.	

SELECTED RESEARCH/PROJECTS

Game Development Project on the Jam'O Drum CMU Pre-College Program	Jul 2023 – Aug 2023
<ul style="list-style-type: none">Led a five-student group to develop a multiplayer game (four players used wheels to control characters on a round desk) on the Jam'O Drum platform within a four-week timeline.Gathered and consolidated various game ideas from each team member, resolved compatibility issues by creating a specialized package to convert normal signals into electric signals for platform recognition, launching game successfully.	
LIGO's FFT Mechanism for Detecting Gravitational Waves Shanghai, China	Dec 2022 – Jul 2023
<ul style="list-style-type: none">Collaborated with esteemed JHU astronomy professor to conduct research on gravitational waves as part of Pioneer program.Self-taught relevant mathematics for FFT (Fast Fourier Transform) and utilized Python programs to analyze data from NED (Nasa Educational Database).	
CIGale (Code Investigating Galactic Emission) Complementary GUI Shanghai, China	Jan 2022 – Dec 2022
<ul style="list-style-type: none">Developed GUI with python package Customtkinter for a command-line program named CIGale, enabling professors and senior students to easily navigate and run simulations without needing in-depth knowledge of command-line tools.Implemented automatized modeling using a simple greedy method to efficiently find the best parameters for each model.	
Height of Sphere Fall and Water Splash Shanghai World Foreign Language Academy (High School)	Jan 2023 – May 2023
<ul style="list-style-type: none">Developed a theoretical model for fluid behavior, incorporating simplifications to account for complexities in fluid mechanics.Utilized Python packages such as fluids and matplotlib to create a simulated water splash with discrepancy below 25%.	

ACTIVITIES

National Highschool Astronomy Aerospace Organization(HAAO) (https://haao.xyz)	Oct 2022 – Now
<i>Co-Founder and Leader</i>	Shanghai, China
<ul style="list-style-type: none">Co-founded HAAO with another astronomy club leader to address the lack of astronomy resources in high schools, and united 21 schools and over 100 active members through outreach efforts.Facilitated Saturday night seminars and speeches by university professors offering educational opportunities for members.Established online communication platforms, including a discord server and WeChat groups, to enhance information sharing.Led multiple long-term academic projects, including a successful initiative to analyze the moon's surface using photographs from members located nationwide.	
Computerization Club at Shanghai World Foreign Language Academy (High School)	Sep 2022 – Now
<i>Leader</i>	Shanghai, China
<ul style="list-style-type: none">Maintained 20 members in the club, organized and facilitated meetings to assign project tasks and track project progress.Led multiple projects, such as improving the school's official website, developing an official website for the school's TEDx event, and training AI models for photo style personalization (https://galaxy2painting.xyz).	

SKILLS

- Technical Skills: C++, Python, Java, HTML, Javascript, CSS, Csharp, Matlab
- Language Skills: English, Chinese