

# 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: USAMO Qualified, Bpho Top Gold (global top 100), USACO Gold	Oct 2022 – Feb 2023

## INDUSTRIAL EXPERIENCE

<b>TalkMeUp Inc.</b>	May 2024 – Aug 2024
<i>Website Engineer Intern</i>	Remote, US
<ul style="list-style-type: none"><li>Led a team of interns to test company websites, successfully identifying and resolving cross-browser and multi-device bugs, ensuring a seamless user experience.</li><li>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.</li><li>Designed and developed a user-friendly UI using <b>React</b> for an AI chatbot, integrating it with a <b>Python</b>-based backend and training the AI on interview data to significantly enhance its performance.</li><li>Streamlined user data organization from <b>MongoDB</b> using a <b>Python</b> tool, facilitating easier future access and analysis; developed an interactive web interface for managers to visualize user and team activity data in real-time.</li><li>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.</li></ul>	

## SELECTED RESEARCH/PROJECTS

<b>Game Development Project on the Jam'O Drum</b>   CMU Pre-College Program	Jul 2023 – Aug 2023
<ul style="list-style-type: none"><li>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.</li><li>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.</li></ul>	
<b>LIGO's FFT Mechanism for Detecting Gravitational Waves</b>   Shanghai, China	Dec 2022 – Jul 2023
<ul style="list-style-type: none"><li>Collaborated with esteemed JHU astronomy professor to conduct research on gravitational waves as part of Pioneer program.</li><li>Self-taught relevant mathematics for FFT (Fast Fourier Transform) and utilized <b>Python</b> programs to analyze data from NED (Nasa Educational Database).</li></ul>	
<b>CIGale (Code Investigating Galactic Emission) Complementary GUI</b>   Shanghai, China	Jan 2022 – Dec 2022
<ul style="list-style-type: none"><li>Developed GUI with <b>python</b> 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.</li><li>Implemented automatized modeling using a simple greedy method to efficiently find the best parameters for each model.</li></ul>	
<b>Height of Sphere Fall and Water Splash</b>   Shanghai World Foreign Language Academy (High School)	Jan 2023 – May 2023
<ul style="list-style-type: none"><li>Developed a theoretical model for fluid behavior, incorporating simplifications to account for complexities in fluid mechanics.</li><li>Utilized <b>Python</b> packages such as fluids and matplotlib to create a simulated water splash with discrepancy below 25%.</li></ul>	

## ACTIVITIES (<https://terrificterry.github.io/>)

<b>National Highschool Astronomy Aerospace Organization(HAAO)</b> ( <a href="https://haao.xyz">https://haao.xyz</a> )	Oct 2022 – Now
<i>Co-Founder and Leader</i>	Shanghai, China
<ul style="list-style-type: none"><li>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.</li><li>Facilitated Saturday night seminars and speeches by university professors offering educational opportunities for members.</li><li>Established online communication platforms, including a discord server and WeChat groups, to enhance information sharing.</li><li>Led multiple long-term academic projects, including a successful initiative to analyze the moon's surface using photographs from members located nationwide.</li></ul>	
<b>Computerization Club at Shanghai World Foreign Language Academy (High School)</b>	Sep 2022 – Now
<i>Leader</i>	Shanghai, China
<ul style="list-style-type: none"><li>Maintained 20 members in the club, organized and facilitated meetings to assign project tasks and track project progress.</li><li>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 (<a href="https://galaxy2painting.xyz">https://galaxy2painting.xyz</a>), (<a href="https://enspire.one">https://enspire.one</a>).</li></ul>	

## SKILLS

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