

# YOUWEI ZHONG

Shanghai Jiao Tong University ◇ Shanghai, China  
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## EDUCATION

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### Shanghai Jiao Tong University

September 2021 – Present

Undergraduate in Computer Science

Member of **John Hopcroft Class**, an elite CS program at Zhiyuan College, SJTU, for top 5% of students, with a focus on **Theoretical Computer Science**.

Core GPA: 3.88/4.3

TOEFL Score: 101

### Shanghai High School

September 2018 – June 2021

Member of the Engineering Class, an elite class at SHS, one of the best high schools in China.

## RESEARCH EXPERIENCE

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### John Hopcroft Center, Shanghai Jiao Tong University

April 2023 - Present

*Research internship*

*Shanghai, China*

- Tutored by Qinxiang Cao
- Formalized bytecode programs in Coq using denotational semantics.
- Proved the soundness of a kind of Zero-Knowledge Proof protocol in Coq.

## ACADEMIC ACTIVITIES

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### SJTU-THU-PKU Computer Science Summer School, Shanghai Jiao Tong University

June 2023 – July 2023

*Student*

*Shanghai, China*

- Learned about Zero-Knowledge Proof, Secure Multi-party Computation and some frontier research in AI.
- Made friends with students from MIT, ENS and other top universities in the world.
- Participated in Jane Street's Estimathon game and learned the importance of understanding rules and teamwork.

## TEACHING EXPERIENCE

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### Program Design and Data Structure - Part III, Shanghai Jiao Tong University

June 2023 – July 2023

*Teaching assistant*

*Shanghai, China*

- Prepared the code repository for the project of Ray Tracing in Rust. Wrote a detailed setup manual for the students.
- Designed the tasks of the project. Answered the questions of the students.

## MISCELLANEOUS

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### John Class Online

December 2021 – Present

*Maintainer*

- Designed an internal class forum based on Discourse, a well-known open source discussion platform.
- Maintained the operation of the Aliyun server and the website.

### Zhiyuan College Debate Team

July 2021 – July 2022

*Captain*

*Shanghai, China*

- Organized the recruitment of the debate team. Produced recruiting WeChat pushes.
- Lead the preparation for Freshman Cup and Union Cup. Organized team building activities.

## HONORS AND AWARDS

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**Longfor Scholarship (10'000 yuan, 10 winners each year)**  
**Zhiyuan Honors Scholarship (5'000 yuan per year, Top 5%)**  
**Three Good Student of Shanghai Jiao Tong University**

December 2022  
December 2023, 2022 and 2021  
October 2023 and 2022

## TECHNICAL SKILLS

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<b>Research Interests</b>	Formal Verification, Zero-Knowledge Proof
<b>Computer Languages</b>	Coq, C, C++, Python, Rust
<b>Machine Learning library</b>	Pytorch, Scikit-learn
<b>Tools</b>	Git, VSCode