

Yifei Zhang

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[\[Personal website\]](#) | [\[github\]](#)

Introduction

Currently an undergraduate in the College of Computer Science, **Nankai University**, class of 2026.

My research interests include cyber security/information security, and cryptology, with a specified focus on **password security and authentication**.

Publications

- **EditPSM: A New Password Strength Meter Based on Password Reuse via Deep Learning**
Yifei Zhang, Zhenduo Hou, Yunkai Zou, Zhen Li, Ding Wang
In Proc. **INSCRYPT 2024**, (CCF Rank C), **Best paper runner up**. [\[PDF\]](#) [\[video\]](#)

Awards

- **Cryptology National Contest 2024**, China (Held by CACR).
Finalist, National Second Prize.
- **Contemporary Undergraduate Mathematical Contest in Modeling**, National contest 2024, China.
Second Prize (Tianjin).

English Language Proficiency

- **IELTS**, March 2025 (First-time test taker)
Overall band score 8.5/9 (Reading 9/9, Speaking 8.5/9, Listening 8.5/9, Writing 7/9)
- **CET 6**, summer 2023 (As a **freshman**).
657/710
- **One-year Exchange Student**, Horace Mann Elementary – Iowa City, IA, USA Aug 2014 – Aug 2015

Education

- Nankai University**, BE in Computer Science Sept 2022 – May 2026
- GPA: 3.61/4.0

Experience

- Exchange Student**, Horace Mann Elementary – Iowa City, IA, **United States** Aug 2014 – Aug 2015
- My mom served as visiting scholar under visa J1. I went along as student under visa J2.

- Student Intern, Research Assistant**, CryptoSysLab – Nankai University Sept 2023 – Now

- Directed by Prof. Ding Wang.
- Mentored by Prof. Ding Wang and Dr. Zhenduo Hou (Postdoc).
- Published one paper as the first author in CCF-C conference.
- Participation in several published CCF-A conference papers.

- Student Intern – 360 Security** June 2024 – July 2024

- Summer student intern, with a rating of 96/100 given by my supervisor.

- Teaching Assistant – Parallel Programming** Jan 2025 – July 2025

- Since I ranked #1 for this course in Spring 2024, I was selected as TA for Spring 2025. Parallel Programming is a mandatory course for CS majors in Nankai University.

Projects

Universe Simulator (May, 2023)

[Github repo link: \[code\]](#)

- Simulates the behavior of multiple civilizations, with population growth, military power, warfare, diplomacy, etc.
- Graphic interface designed with QT in C++.
- Course project for "Program Design with Advanced Programming Language". **Ranked #1 in the College of Computer Science.**

Chinese Rumor Detection (Dec. 2023)

[Github repo link: \[code\]](#)

- Detects Chinese rumor with Bayesian classifier, SVM, Random Forest, MLP, RNN, CNN, and BERT.
- Course project for "Programming with Python", final score: 96/100.

Accelerating Edit Distance Calculation Using Parallel Programming (June, 2024)

[Github repo link: \[code\]](#)

- Accelerated edit distance calculation using SIMD, pthread, openMP, MPI, and CUDA.
- Course project for "Parallel Programming", final score: 97/100, **Ranked #1 in the College of Computer Science.**

Fluid Simulation in 2D and 3D (Dec, 2024)

[Github repo link: \[code\]](#)

- Simulation of fluid behavior in 2D and 3D.
- Course project for "Computer Graphics", final score: 100/100, **Ranked #1 in the College of Computer Science.**

Improving Neural Machine Translation Using Retrieval and Data Augmentation (Dec, 2024)

[Github repo link: \[code\]](#)

- Enhances the performance of Neural Machine Translation models using KNN-Retrieval and Data Augmentation simultaneously.
- Course project for "Natural Language Processing", final score: 96/100.