

YAOYANG YE

✉ ye472@purdue.edu · 🌐 CubicYYY · 📞 (765)-476-6793

💡 RESEARCH INTERESTS

Program Analysis/Verification/Synthesis

Developing automated techniques for detecting, verifying, and repairing defects in programs.

🎓 EDUCATION

Purdue University

West Lafayette, Indiana, USA

Ph.D. Student in Computer Science

2025.8 – Present

- Advisor: Prof. Xiangyu Zhang
- Recent Research: LLM-based program defects detection, validation, and patching

Zhejiang University (ZJU)

Hangzhou, Zhejiang, China

Bachelor of Engineering in Computer Science and Technology

2021.9 – 2025.6

- GPA: **3.91/4.0**

🔍 EXPERIENCES

Humanify Hangzhou, Zhejiang, China

2025.1 – 2025.4

Remote Intern Software Developer

Customize an operating system based on AOSP to boost real-time AI applications.

The University of Tokyo

2024.9 – 2025.3

USTEP Exchange Program 2024.9 – 2025.3

Synthesis for Resistance to Side-Channel Attacks

2024.9 – 2025.6

Research Supervised by Prof. Jingbo Wang, Purdue University

LLVM Optimizations in Pointer Analysis

2024.10 – 2025.5

Research Supervised by Prof. Peisen Yao, Zhejiang University

Shanghai Luogu Network Technology Co., Ltd Shanghai, China

2021.6 – 2023.1

Remote Intern Backend Developer / Lecturer

Contributed to Luogu, a leading online judge for competitive programming in China.

📖 TEACHING

CTF101: Attack and Defence Practice Course in Zhejiang University

2023, 2024

Lecturer / Teaching Assistant in Web and Miscellaneous topics

📖 PUBLICATIONS

Understanding Industry Perspectives of Static Application Security Testing (SAST) Evaluation (FSE'25)

Y. Li, P. Yao, K. Yu, C. Wang, **Y. Ye**, S. Li, M. Luo, Y. Liu, K. Ren

- Investigated the factors blocking programmers from using tools introduced in academic fields

⚙️ SKILLS

Programming

- >10k lines: C++ > Rust > Python
- 5k-10k lines: JavaScript/TypeScript > PHP > MATLAB
- <5k lines: Java > Haskell

Language

- Mandarin: Native
- English: Fluent (TOEFL 100)
- Japanese: Fluent (JLPT N1)

♡ HONORS AND AWARDS

<i>2nd Place (Team)</i> , SECCON 2023, Tokyo, Japan	2023
<i>2nd Class Prize</i> , University Scholarships for Excellent Students, Zhejiang University	2023
<i>2nd Place (Team)</i> , CODEGATE 2023, Seoul, Korea	2023
<i>3rd Class Prize</i> , University Scholarships for Excellent Students, Zhejiang University	2022
<i>1st Class Prize</i> , National Olympiad in Informatics (Provincial)	2018

📖 EXTRACURRICULAR ACTIVITIES

ZJU Azure Assassin Alliance CTF Team	2021 – 2025
<i>Member</i> Specializing in Web and Misc challenges.	
ZJU X-Lab	2022 – 2025
<i>Full Stack Developer</i> Rust, Next.js, and Python	

📖 MISCELLANEOUS

Personal Blog <https://cubicy.icu>

Hobbies Cooking, electric guitar, online math courses

Self-Description Good at identify underlying patterns and coming up with new ideas.