

# YUJIN ZHANG

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## EDUCATION

### Nanjing University, China

Sep 2021 - Present

- Bachelor of Engineering (B.E.) in Software Engineering (Expected)
- Overall GPA: 4.56/5.00

## RESEARCH EXPERIENCE

### Social Dynamics of Fixing Common Vulnerabilities and Exposures (CVEs)

Aug 2024 - Present

*Advised by Prof. Haojian Jin at University of California San Diego*

- Conducted a mixed-method analysis of over 500 recent CVEs entries and associated events from GitHub Python projects to study how participants take different roles and collaborate with shared responsibility in fixing CVEs.

### Trust Label Design for Open Source Software

Jan 2024 - July 2024

*Advised by Prof. Haojian Jin at University of California San Diego*

- Designed *TrustPercentile.md*, a Markdown-formatted label that consolidates human factors-related information about open-source software (OSS) projects.
- Developed an open-source application to enable authenticated users to automatically generate *TrustPercentile.md* files for an OSS project.
- Conducted a usability study with 13 novice OSS consumers to evaluate the effectiveness of *TrustPercentile.md*.

### (Under Review) Scaling Inter-procedural Dataflow Analysis on the Cloud

July 2023 - Aug 2024

*Advised by Prof. Zhiqiang Zuo at Nanjing University*

- Proposed a novel incremental distributed algorithm to accelerate incremental interprocedural dataflow analysis, and implemented the algorithm on the general distributed graph processing platform, Apache Giraph.
- Developed *BigDataflow-Incremental*, a framework running on a real-world cloud, which provides a variety of high-level APIs to simplify the implementation of client dataflow analyses.
- Evaluated the performance and scalability of *BigDataflow-Incremental* over large-scale software systems (e.g., Linux kernel, Apache httpd)

## AWARDS AND HONORS

### Outstanding Student of Nanjing University

Sep 2022, Sep 2023

### Nitori International Scholarship (Top 5%)

Sep 2023

### Tencent Scholarship of Nanjing University (Top 3%)

Sep 2022

### Second Prize in National High School Mathematics Competition of China

Sep 2020

### First Prize in National Olympiad in Informatics (Provinces)

Nov 2018

## TECHNICAL STRENGTHS

### Technical Skills

Programming Languages (Python, C/C++, Java), Frontend (HTML, CSS, JavaScript), Backend (Spring Boot, Redis), Big Data Analytics (Hadoop, Kafka)

### Languages

Chinese Mandarin (native), English (S24 in TOEFL)