

# Xinyue LIU (刘心悦)

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Personal Website: <https://aaronxyliu.github.io/about-me>

## EDUCATION BACKGROUND

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- Ph.D.**     **University at Buffalo, SUNY**, New York, USA     (CS Ranking: **No.74** worldwide)     2021 – Current  
Interested in software engineering on web applications; advised by [Lukasz Ziarek](#)  
Department of Computer Science and Engineering
- B.S.**     **Nanjing University**, Nanjing, China     2016 – 2020  
Department of Computer Science and Technology  
GPA: 4.26/5.0

## PROFESSIONAL SKILLS

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Computer languages: C++, Python, JavaScript, R, Lua, HTML, C#, WebAssembly, Shell, Perl, Go, OCaml, StandardML

## HONORS AND AWARDS

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- Freshman Scholarship, Nanjing University     2016  
People's Scholarship, Nanjing University     2016 – 2020

## PUBLICATIONS

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- X. Liu**, L. Ziarek, "PTV: Better Version Detection on JavaScript Web Library Based on Unique Subtree Mining," The ACM International Conference on the Foundations of Software Engineering (FSE 2025) (**UNDER REVIEW**) **CCF-A**
- X. Liu**, Z. Song, W. Fang, W. Yang, W. Wang, "WEX: Intelligent Automatic Generation of Explicit Waits for Efficient Web End-to-End Flaky Tests," The Web Conference 2024 (WWW 2024). (Acceptance: 20.2%, 405/2008) **CCF-A**
- X. Liu**, L. Ziarek, "PTdetector: An Automated JavaScript Front-end Library Detector," 38th IEEE/ACM International Conference on Automated Software Engineering (ASE2023). (Acceptance: 21%, 103/629) **CCF-A**
- Y. Yan, Y. Zheng, **X. Liu**, N. Medvidovic, W. Wang, "AdHere: Automated Detection and Repair of Intrusive Ads," 45th IEEE/ACM International Conference on Software Engineering (ICSE 2021). (Acceptance: 26%, 209/796) **CCF-A**
- A. Romano, **X. Liu**, Y. Kwon, W. Wang, "An Empirical Study of Bugs in WebAssembly Compilers," 36th IEEE/ACM International Conference on Automated Software Engineering (ASE 2021). (Acceptance: 19.2%, 82/427) **CCF-A**
- X. Liu**, Yanhui Li, "Is Bigger Data Better for Defect Prediction: Examining the Impact of Data Size on Supervised and Unsupervised Defect Prediction," 12 pages, Sep. 2019, WISA 2019

## ONGOING WORK

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- X. Liu**, L. Ziarek, "Unique Subtree Mining: A New Technique for Detection" (**JOURNAL PAPER READY**)
- X. Liu**, L. Ziarek, "An Empirical Study towards Web Library Usage in the Wild and its Security Implications" (**CONFERENCE PAPER READY**)

## INTERNSHIP

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- Game Developer**, TiMi J5 Studio, **Tencent**, China     June – Sep. 2019

- Participated in developing a major online game and was responsible for building the game's combat logic.
- Produced an efficient development tool to speed up the product iteration process.

## EXTRACURRICULAR ACTIVITY

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Phantom Magic Club, Nanjing University, <b>Minister</b>	Sep. 2017 – June 2018
Volleyball Team, Nanjing University, <b>Captain</b>	Sep. 2017 – June 2018
Student Union, Nanjing University, <b>Member</b>	Oct. 2016 – June 2017

## TEACHING EXPERIENCE

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University at Buffalo, SUNY, Buffalo, NY	Sep. 2021 – June 2023
<b>Teaching Assistant</b> of Graduate-level Algorithm Analysis Course, Prof. Xin (Roger) He	