Xinyue LIU (刘心悦)

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

Education Background

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

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

Honors and Awards

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

Publications

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, "WEFix: 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 **CCF-C**

Ongoing Work

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

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

Phantom Magic Club, Nanjing University, **Minister** Sep. 2017 – June 2018

Volleyball Team, Nanjing University, **Captain** Sep. 2017 – June 2018

Student Union, Nanjing University, **Member** Oct. 2016 – June 2017

Teaching Experience

University at Buffalo, SUNY, Buffalo, NY Sep. 2021 – June 2023

Teaching Assistant of Graduate-level Algorithm Analysis Course, Prof. Xin (Roger) He