YU LIANG

Ph.D. Candidate of Informatics
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Pennsylvania State University
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Research Interests:

System and Software Security, Principles of Operating Systems, Principles of Compilers, DBMS

Employment

Ph.D. Software Engineer Intern   5.20.2024 - Present
Meta Platforms, Inc.

Education:

Ph.D. Candidate   8.20.2019 - Present
Pennsylvania State University
Major: Informatics
Advisor: Dr. Hong Hu

Master   8.20.2018 - 8.20.2019
Pennsylvania State University
Major: Engineering Science and Mechanics
Advisor: Dr. Jian Xu

Publications:

1. Detecting Logical Bugs of DBMS with Coverage-based Guidance, **Yu Liang**, Song Liu, and Hong Hu, **USENIX Security 2022**
2. Who Goes First? Detecting Go Concurrency Bugs via Message Reordering, Ziheng Liu, Shihao Xia, **Yu Liang**, Linhai Song, and Hong Hu, **ASPLOS 2022**
3. Let the DOCTOR Decide Whom to Test: Adaptive Testing Strategies to Tackle the COVID-19 Pandemic, **Yu Liang**, Amulya Yadav, **AAMAS 2021**
4. Optimal and Non-Discriminative Rehabilitation Program Design for Opioid Addiction Among Homeless Youth. Amulya Yadav, Roopali Singh, Nikolas Siapoutis, Anamika Barman-Adhikari, & **Yu Liang, IJCAI 20**
5. Tackling Sequential Attacks in Security Games, Thanh H. Nguyen, Amulya Yadav, Branislav Bosansky, **Yu Liang, GameSEC 19**

SKILLS:

- System Security:
  - Techniques: Fuzzing, Program Analysis, Database Management System testing