

Yuyang(Peter) Rong

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EDUCATION

UC Davis

Sep 2019 - Present

Computer Science

Davis, CA

- Ph.D. Candidate,
- Research interest: software security, fuzz testing, dynamic taint analysis.

ShanghaiTech University

Sep 2015 - Jun 2019

Computer Science

Shanghai, China

- Overall GPA 3.80/4(Ranking: 5/124)

EXPERIENCE

Bytedance

Jun 2020 - Sep 2020

Research Intern

Mountain View, CA

- Focus on improving fuzzing branch coverage using principled techniques;
- ***Valkyrie: Improving Fuzzing Performance Through Principled Techniques*** submitted to Euro S&P 2022.

Bytedance

Sep 2018 - Aug 2019

Research Intern

Beijing, China

- Security Lab lead by Prof. Hao Chen, main work focuses on integer overflow;
- Main focus on integer overflow, we trigger constrained integer overflow by instrumenting source code using **LLVM**;
- ***IntEgrity: finding integer errors by targeted fuzzing*** published on SecureComm 2020;

ShanghaiTech University

Nov 2017 - Jan 2018

Lab Intern

Shanghai, China

- By combining line search and trust region, we designed our subproblem algorithm;
- Implemented our algorithm and subproblem algorithm using Python and did extensive experiments;
- ***An inexact first-order method for constrained nonlinear optimization*** published on *Optimization Methods and Software*

ABB Group

Oct 2017 - Jun 2018

Research Intern

Shanghai, China

- Group of 10, Tried to combine robot arm and an indoor mobile car;
- Responsible for the software development of **navigation system**, **mapping system**, and **state machine**;
- Python, C++ and Robot Operating System(ROS) used.

Screen++

Jun 2017 - Jun 2017

Team leader

Shanghai, China

- Proposed an application to connect all the screens in different platforms;
- Responsible for the software development & market model; I also did the final presentation;
- Python & Apache used. Group of 5 and won the **3rd prize** in iLab Hackathon.

AWARDS

ShanghaiTech President's Scholarship

Nov 2016

Shanghai Scholarship

Oct 2016