

YIWEI YANG

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EDUCATION

ShanghaiTech University, Undergraduate 09/2018 – 06/2022
• Major: Computer Science, finished Compiler, Network, Database, OS, Convex, RL, Parallel Computing.

WORK EXPERIENCE

Jump Trading, Shanghai, China 07/2020 – 09/2020
(Linux Team) Production Engineer Intern
• High Frequency Trade Order Book simulation applying Linear Regression Method.
• Applied salt and jinja to automate scheduling of jobs and assigning affinity of cpu cores in Linux DevOps.
• Applied gobidng of gobpf to try IOVisor stuff.

RESEARCH EXPERIENCE

System Lab, ShanghaiTech University 07/2019 – 06/2020
(Undergraduate Research) Intern
• Zhao, Zhe, Guangke Chen, Jingyi Wang, **Yiwei Yang**, Fu Song, and Jun Sun. "Attack as Defense: Characterizing Adversarial Examples using Robustness".
A2D uses the cost of attacking an input for robustness evaluation and identifies those less robust examples as adversarial since less robust examples are easier to attack.
• Researching MOVE language in Libra currency source code to protect against Arithmetic Overflow, Timestamp Difference.
• Understanding the real access mechanism of Memory Mode Optane Memory and XPBuffer by reverse-engineering methods.

Darko Marinov's Lab, University of Illinois at Urbana-Champaign 07/2021 – Present
(Research Experience for Undergraduate) Remote Program
• Investigating Flacky Tests over Mozilla Browser case.

PORTFOLIOS

COOL compiler <https://github.com/victoryang00/CS131-COOL-Compiler>
A Classroomm Object-Oriented Language from source code to MIPS Assembly Implemented lexer, parser and code-generator.

Pintos <https://github.com/victoryang00/PintOS>
A Stanford based Tiny x86 single thread multi process Operating System Implemented Thread, User Program (Argument Passing) Virtual Memory and File System.

Cuckoo Hashing <https://github.com/victoryang00/CuckooHashing>
A Novel Hash method using GPU Implement full two table cuckoo Hash table.

SKILLS

- **Programming Languages:** not limited to any specific language, and experienced in Python/Golang, comfortable with Rust/C/C++/Java/Scala/TypeScript (in random order).
- **System:** familiar with operating system concepts and design, have experience in optimizing performance on kernel level using tools like **ebpf** and **strace**.
- **Machine Learning:** familiar with general knowledge of machine & reinforce learning.
- **Developing Tools:** experienced in Linux-based programming, have experience with team tools like Confluence, Jira, Git, etc, DevOps tools like grafana, jenkins, ansible, etc.

MISCELLANEOUS

- Interests: Computer Architecture and System, Software Engineering.
- Awards:
 - Lead GeekPie_HPC *Ranked 9*, SC20. *Ranked 8*, ISC21.
 - As a member of 0x238e *Best award*, Bitrun, Hang Zhou, 2019.
 - *Second Award*, Shanghi CTF invitation competition, 2019.
- opensource: collective_profiler