XINZHE WANG

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EDUCATION

Shanghai Jiao Tong University (SJTU), Shanghai, China

2017 – Present

Undergraduate student in Software Engineering (SE), expected June 2021

EXPERIENCE

The Institute of Parallel And Distributed Systems (IPADS)

September 2020 - Present

Shanghai Jiao Tong University Undergraduate student

• Currently working on my thesis about operating system, KVM and Trusted Execution Environment(TEE).

DEFCON 28 CTF World Champion

August 2020

*Team A*O*E* Member

- World's largest and most notable hacker convention, the *Olympics of hacking*.
- Contribute to challenge *nooode* and *pinboooll*.
- First champion of China mainland.

Tencent Keen Security Lab

July 2020 – September 2020

Develop group Internship

- Micro service, distributed backend for BinaryAI, a realization of paper "Order Matters: Semantic-Aware Neural Networks for Binary Code Similarity Detection".
- High performance vector similarity search engine based on Milvus.
- Less than 200ms for entire prediction and searching in billions of vectors.

Google Summer of Code 2020

May 2020 – August 2020

C/Lua, Linux kernel Developer

Load Lua script hook in Linux kernel to inspect the contents of the HTTP messages transparently inside the kernel, https://summerofcode.withgoogle.com/archive/2020/projects/5442757247631360/

- Add lua kernel script hook in Linux Kernel TLS module.
- \bullet Got maximum 200% response time acceleration compared to http server lighttpd.

sjtu-jiaojiao/SJTU-JiaoJiao

July 2019 – September 2019

Golang, Micro-service, 20 stars Backend architect, manager

Shanghai Jiao Tong University second-hand information trading platform, https://github.com/sjtu-jiaojiao/SJTU-JiaoJiao

- Micro-service architecture based on Golang.
- Overcome at least 3K QPS in total 12 vCPU and 100Mbps cluster.
- Bottleneck is lack of bandwidth, CPU loads are less than 70%.

MXWXZ/sjtu-automata

2019 – Present

Python, 65 stars Individual Projects

Automatically elect cources for SJTU student, https://github.com/MXWXZ/sjtu-automata

- Unattended automatic elect cources.
- Concurrent elect cources to increase success rate.

MXWXZ/DuiMini 2018 – Present

C++, 13 stars Individual Projects

Cross-platform lightweight DirectUI interface library, https://github.com/MXWXZ/DuiMini

- Cross-platform support, Windows/Linux/OSX.
- Lightweight, full static link without compression guarantees size within 10M.
- High efficiency, based on OpenGL, called by game-level engine.

SKILLS

- >10K lines: C++/C > Go = Python
- 1-10K lines: Java = Javascript > HTML
- <1K lines: Shell > PHP > C#
- $\bullet \ \ Others: \ Nginx, Mariadb, Redis, Mongodb, React, go-micro, Travis, Docker (Docker-compose), Swarm$

♥ Honors and Awards

Best defender XiHuLunJian Hangzhou Cyber Security Skills Competition	2020
First Prize National College Student Information Security Contest	2020
6th Place Codegate CTF, Korea	2020
World Champion DEF CON 28 CTF Final(A*O*E)	2020
2nd Place 3rd 'Qiang Wang Cup' Cyber Mimic Defense International Elite Challenge	2020
1st Place 2020 Edu. HW - red team	2020
1st Place Jane Street Electronic Trading Challenge(ETC)	2019
1st Place Roar CTF, China	2019
Shanghai Jiao Tong University original vulnerability reporter	2019
Finalist CyBRICS CTF, Russia	2019
Finalist SUCTF, China	2019
First Prize National College Student Information Security Contest	2018
Third Prize HuWangBei CTF, China	2018
Finalist TCTF Raising Star, China	2018
3rd Place "Freshman" Science and Technology Innovation Fair	2018

i Miscellaneous

- 0ops CTF group member
- Blogger: https://www.imwxz.com/
 - Over 100K visitors since 2017
- GitHub: https://github.com/MXWXZ
 - Resume: http://resume.github.io/?mxwxz
 - Over 300 stars in all self-created repos
 - Contributed to famous project like ant-design
- Whitehat of EDU-SRC: https://src.sjtu.edu.cn/profile/6020/
 - Found critical vulnerabilities in many universities
 - Got certificate presented by SJTU