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XINZHE WANG

✉ matrixwxz@gmail.com · ☎ (+86) 15380301073 · 🌐 MXWXZ

🎓 EDUCATION

- The Chinese University of Hong Kong (CUHK)**, Hong Kong, China 2021 – Present
Master of Philosophy majoring in Computer Science and Engineering (CSE).
- Shanghai Jiao Tong University (SJTU)**, Shanghai, China 2017 – 2021
Bachelor of Engineering majoring in Software Engineering (SE).

👤 EXPERIENCE

- The Institute of Parallel And Distributed Systems (IPADS)** September 2020 – June 2021
Shanghai Jiao Tong University Undergraduate student

- Final thesis: *The Construction of High-confidence KVM Virtual Machine with Software and Hardware Collaboration.*

- 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 *pinboool*.
- 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.
- 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 – 2021
Python, 90 stars Individual Project

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

- Unattended automatic elect courses.

- Concurrent elect courses to increase success rate.

⚙️ SKILLS

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

♡ HONORS AND AWARDS

<i>First Prize</i> 'Qiang Wang Cup' National Cyber Security Challenge	2021
<i>Best defender</i> XiHuLunJian Hangzhou Cyber Security Skills Competition	2020
<i>First Prize</i> National College Student Information Security Contest	2020
<i>6th Place</i> Codegate CTF, Korea	2020
World Champion DEF CON 28 CTF Final(A*O*E)	2020
<i>2nd Place</i> 3rd 'Qiang Wang Cup' Cyber Mimic Defense International Elite Challenge	2020
<i>1st Place</i> 2020 Edu. HW - red team	2020
<i>1st Place</i> Jane Street Electronic Trading Challenge(ETC)	2019
<i>1st Place</i> Roar CTF, China	2019
Shanghai Jiao Tong University original vulnerability reporter	2019
<i>Finalist</i> CyBRICS CTF, Russia	2019
<i>Finalist</i> SUCTF, China	2019
<i>First Prize</i> National College Student Information Security Contest	2018
<i>Third Prize</i> HuWangBei CTF, China	2018
<i>Finalist</i> TCTF Raising Star, China	2018
<i>3rd Place</i> "Freshman" Science and Technology Innovation Fair	2018

📄 MISCELLANEOUS

- 0ops CTF group member
- Blogger: <https://www.imwxz.com/>
 - Over 300K visitors since 2017
- GitHub: <https://github.com/MXWXZ>
 - Resume: <http://resume.github.io/?mxwxz>
 - Over 400 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