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Education

University of Chinese Academy of Sciences

Sep. 2020 – Jun. 2023(expected)

*Master of Science in Cyber Security, Minor: Management of Technology**Beijing, China*

- Excellent Student Cadre; UCAS Scholarship 3x Recipient; Excellent librarian volunteer; GPA: 3.54/4.0
- Interests: Adversarial Attack and Defence; Deep Learning Compiler; MLSys Security; Processing in Memory
- Relevant Coursework: Cybersecurity Strategy; Computer Architecture; ML System; Critical Thinking

Yangzhou University

Sep. 2015 – Jun. 2019

*Bachelor of Science in Software Engineering(NIIT, bilingual)**Yangzhou, China*

- National Encouragement Scholarship 2x Recipient; Outstanding Graduates; GPA: 3.82/4.0; Overall Quality: 8/446

Experience

Institute of Information Engineering&SKLOIS, Chinese Academy of Sciences

Jul. 2021 – Jun. 2023

*Research Assistant, Master Degree Candidate, Advisors: Prof. Rui HOU, Assoc. Prof. Xingbin WANG**Beijing, China*

- Study and reproduction papers, 10+ Reports and Patents writing, Technical principles presentation, and Brainstorm.
- Working with authors, assessed and improved reproducibility for 4 papers using C, Python, and L^AT_EX.
- Developed a service to automatically perform a set of unit tests daily on Artificialities in development in order to decrease time needed for 60+ team members to identify and fix bugs/issues, and 2 Racks Servers operation.

Network Security Research Center, Yangzhou University

Apr. 2017 – Jun. 2019

*Research Assistant, Advisors: Prof. Lejun ZHANG, Prof. Caikou CHEN, Prof. Liucun ZHU**Yangzhou, China*

- Netgear Router Firmware development, OpenResty and Lua lightweight software WAF design and implementation.
- Collaborated with 10+ team members using Git and CI/CD to organize modifications and assign tasks.

Fatong Legal Consulting (Startup, Inc)

Oct. 2017 – Present

*Co-founder, CIO, Computer Technical Support**Zhenjiang, China*

- Developed an automatic processing tool for legal documents using Python crawler and NLP.

Selected Research & Projects

Physical Adversarial Attack and Defense Research | *Academic, PyTorch, TensorFlow*

Aug. 2021 – Present

- Deep understanding SOTA models and methods then reproduction in the Real-world.
- Improve attack Robust via application scenarios and design Confident method to defense. [In the Manuscript]

More Security and Performance trade off GPU architecture | *Academic, TVM, NVM, gem5*

Sep. 2021 – Present

- Study how to develop deep learning compiler and how SOTA scheduler formulates deep learning programs with CUDA.
- Design new fine-grained scheduling algorithm, and strengthen Model Privacy by the AI compiler. [In the Manuscript]

Rust TEE Homomorphic Encryption module | *Rust, Federated AI, Intel SGX*

Mar. 2021 – Aug. 2021

- TEE-empowered computer systems research, and develop a HE module using Rust under Intel SGX.

Software Toolchain Porting for Self R&D Sunway RISC-V Processor | *QEMU, Docker, GCC, LLVM*

Jan. 2021

- Created cross-compilation setup for only support RV64G ISA Chip to porting embedded system, then Burn into board.

Learn and Teach Online App | *JavaScript, React, Android, Prototype Design*

Jun. 2017 – Jun. 2018

- Created an cross-platform application using JavaScript framework to manage student information in YZU.
- National Invention Patents [CN108845796A, CN305312070S] and IF=0.25 Journal [DOI:10.14004/j.cnki.ckt.2018.2924].

Skills

Programming: Python, C/C++, Linux (Over 5000 lines) ; JavaScript, PHP, SQL (Over 1000 lines) ; Chisel, PWN**Languages:** Chinese(Native), Shanghainese(Native), English(Fluent)**Qualifications:** PM, CISP, Huawei Advocate, Cambricon Campus Developer, MOS Expert, ACCA, ACM Student Member**Hobbies:** Photography, Popular Science Writing, History, Singing, Amateur Radio-BI1MYB, Gaming-WoW,CSGO,SLG

Leadership / Extracurricular

- Led chapter of 50+ members to work towards goals that improve and promote community service, academics, and unity.
- Volunteered, organized and held more than 100 campus salons and cultural and artistic activities.
- 7 Lectures to 150+ undergraduates about how to prepare National Postgraduate Entrance Exam. [Assessment:4.63/5.0]
- 11th Capital Internet+ Competition Outstanding Winner(Analysis key features of CD-SEM photoresist sample picture).