

JING LI

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Profile Summary

Interest in pursuing a PhD or Research Assistant position in Fall 2023 or Spring 2024 in Artificial Intelligence Security, FinTech, ML for Healthcare or in an aligned area.

Education

University of Chinese Academy of Sciences **Sep. 2020 – Jun. 2023**
Master of Science (M.Sc) in Cyber Security [GPA: 3.52/4.0] *Beijing, China*

- Minor: Management of Technology (Courses: Business Data Analysis; Blockchain Finance)
- Supervisor: Prof. Rui Hou. My R&D direction in lab: MLSys Security
- Relevant Coursework: Cybersecurity Strategy; Computer Architecture; AI System; Critical Thinking
- Thesis: Research and Implementation of Adversarial Attack System for Human Detection

Gap Year **Jun. 2019 – Sep. 2020**
Shenyang, China & Nantong, China & Tieling, China

- Spent time with family, travelled, and managed family's grocery store and signboard factory.
- Nearly half the time, prepared for exams and certifications like the Chinese Gap year.

Yangzhou University **Sep. 2015 – Jun. 2019**
Bachelor of Engineering (B.Eng) in Software Engineering(NIIT, bilingual) [GPA: 3.82/4.0] *Yangzhou, China*

- Supervisor: Prof. Lejun Zhang. My R&D direction in lab: Web Security Solution Development
- Thesis: Design and Implementation of Web Application Firewall based on OpenResty

Experience

Carnegie Mellon University **Oct. 2022 – Jan. 2023**
Intern in Xulab, Advisor: Asst.Prof.Min Xu *Remote*

- Studied of adversarial attacks against SMPL-like algorithms for 3D humans mesh.
- Studied Cryo-ET data analysis and reviewed related papers.

Institute of Information Engineering, Chinese Academy of Sciences **Dec. 2020 – Jun.2023**
Graduate Research Assistant, Advisors: Prof.Rui Hou, Dr.Xingbin Wang *Beijing, China*

- Studied and reproduced papers, 10+ reports and patents writing, presentation and brainstorm.
- Developed a service to automatically perform a set of unit tests daily on artificialities in development to decrease the time needed for 60+ team members to identify and fix issues, and 2 Racks Servers operation.

MiraclePlus (former Y Combinator China) **Jul. 2022 – Aug. 2022**
Campus Scout, Advisor: SVP.Roderick Dong *Remote*

- Completed the task of deal sourcing and due diligence.

Network Security Research Center, Yangzhou University **Apr. 2017 – Jun. 2019**
Undergraduate Research Assistant, Advisors:Prof.Lejun Zhang *Yangzhou, China*

- Netgear router firmwares develop, OpenResty and Lua lightweight software WAF design.
- Collaborated with 10+ team members using Git and CI/CD to organize modifications and assign tasks.

Fatong Legal Consulting (Startup) **Apr. 2018 – Jun. 2019**
Co-founder, Computer Technical Support *Zhenjiang, China*

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

Publications

Conference Paper

- Mimic Octopus Attack: Dynamic Camouflage Adversarial Examples using Mimetic Feature for 3D Humans
Jing Li, Sisi Zhang, Xingbin Wang, Rui Hou
Inscrypt 2022 (CCF-C, Cybersecurity), Accept Rate: 23/69=33.3%

Journal Article

- The Develop of Learn and Teach Online One-Stop Service Platform based on React Native (*in-chinese*)
Jing Li, Caikou Chen, Yu Lu, Zimeng Sheng, Lei Zhu, Zhentao Sui
Computer Knowledge and Technology, Vol.14, No.27, 2018.
- Research on the Integration Solution of Information Systems for the Whole Profile Analysis of Students in Colleges (*in-chinese*)
Jing Li, Caikou Chen
Peak Data Science, No.3, 2018.

Patent

- Academic Situation Analysis Method based on React Native (*in-chinese*)
Jing Li, Caikou Chen, Zimeng Sheng, Lei Zhu, Yu Lu, Zhentao Sui
CN Invention Patent, CN108845796B, 2021.
- A Phone with a Graphical User Interface (*in-chinese*)
Jing Li, Caikou Chen, Zimeng Sheng, Lei Zhu, Yu Lu, Zhentao Sui
CN Design Patent, CN305312070S, 2019.
- A Kind of One Master and Multiple Slaves Formula Intelligent Video Monitoring Apparatus (*in-chinese*)
Zhibo Guo, Yi Zhang, Yue Zhang, Jing Li, Zhangjie Gong, Xiaoyan Guo, Lian Xue
CN Utility Model Patent, CN208241780U, 2018.

Projects

Physical Adversarial Attack and Defense Research | *PyTorch, 3D Model* Aug. 2021 – Sep. 2022

- Studied the SOTA models and methods then reproduction in the real-world.
- Improved attack robustness in different application scenarios and designed confident solutions to defense.

Security and Performance Trade off GPU Architecture | *TVM, gem5* Sep. 2021 – Dec. 2021

- Studied deep learning compiler and the SOTA scheduler formulates deep learning programs with CUDA.
- Designed fine-grained scheduling algorithms to strengthen inference security by the compiler.

Rust TEE Homomorphic Encryption Module | *Rust, Federated AI, Intel SGX* Mar. 2021 – Aug. 2021

- Studied TEE, and developed HE communication module using Rust under Intel SGX framework.

Software Toolchain Porting for Self R&D Sunway RISC-V Processor | *QEMU, Docker, GCC* Jan. 2021

- Created cross-compilation setup for only support RV64G ISA Chip to porting embedded system.

Learn and Teach Online App | *JavaScript, React, Android, Prototype Design* Jun. 2017 – Jun. 2018

- Created cross-platform application using React Native to manage student information in YZU.

Funding

- Ministry of Education of China, National College Students' Innovation and Entrepreneurship Training Program, Learn and teach online one-stop service platform App, 201711117016Z, PI, Jun. 2017 - Jul. 2018 (10,000 CNY)
- Jiangsu province Education Department, Jiangsu College Students' Innovation and Entrepreneurship Training Program, Development of one master and multiple slaves formula intelligent video monitoring apparatus, 201711117060Y, Co-PI, Sep. 2017 - Jul. 2018 (5,000 CNY)

Skills

Programming: Python, Rust, C++, Linux; JavaScript, PHP, SQL

Languages: English(Fluent) , Chinese(Native), Jianghuai Mandarin(Native), Shanghainese(Fluent), Cantonese(Basic)

Qualifications: PMP (*in-chinese*), CISP, Huawei Advocate, MOS Expert

Professional Services: Student Member of CCF, ACM, CACR, CSIG, IEEE CS

Hobbies: Photography, Writing, History, Singing, Amateur Radio (BI1MYB), Gaming (FPS, MMORPG, SLG)

Extracurricular

- Led chapter of 50+ members to work towards goals that promote community service, academics, and unity.
- Volunteered, organized and held more than 100+ campus salons, cultural and artistic activities.
- 14 Lectures to 300+ undergraduates about how to prepare National Postgraduate Entrance Exam.
- Volunteered in distributed computing for durg discovery (Folding@Home, BONIC).
- Served as a teaching assistant for two courses during university.

Invited Talks

- Huawei Kunpeng Developer Day, Beijing, 2023.
- 18th International Conference on Information Security and Cryptology, Inscrypt 2022, Virtual, 2022.
- Kunpeng Section, Huawei Connect 2022, Beijing, 2022.

Licenses & Certifications

- [2023] 15th trainee, Hejun Business School
- [2022] MLOps (Machine Learning Operations) Fundamentals, Google Cloud, Coursera
- [2022] CVML Programming short course and workshop on Deep Learning and Computer Vision 2022, Aristotle University of Thessaloniki
- [2022] Azure Fundamentals (AZ-900), Azure AI Fundamentals (AI-900), Microsoft
- [2022] Building Video AI Applications at the Edge on Jetson Nano, Nvidia
- [2022] BLS-CPR & AED, Samery Ambulance
- [2021] Driving License, China
- [2018] Securities Qualification Certificate, Securities Association of China
- [2017, 2019] National Qualification of Computer and Software Professional, Ministry of Industry and Information Technology and Ministry of Human Resources and Social Security, China
 - [2019] [Middle Title] Information System Supervisor; [2017] [Middle Title] Security Support Specialist;
 - [2017] [Vice-Senior Title] Senior Information System Project Manager
- [2016] Microsoft Office Specialist: PowerPoint (Office 2016), Microsoft

Honor

- [2020, 2021, 2022] UCAS Academic Scholarship (8,000 CNY * 3)
- [2021] UCAS excellent student leader
- [2021] Capital University vanguard league secretary
- [2021] Huawei excellent campus ambassador
- [2021] Outstanding Winner in 11th Capital Internet+ technology reward competition
- [2021] Cambricon great developer
- [2020] Outstanding Volunteer in 2020 community-based against COVID-19
- [2019] YZU Excellent Graduate
- [2018] Bronze Medal in 2018 Jiangsu province college students' entrepreneurship competition (10,000 CNY)
- [2018] National Endeavor Fellowship (5,000 CNY)
- [2017] East Group (SZ300376) Fellowship (2,000 CNY)
- [2016, 2017] YZU Principal 2nd Prize Scholarships (1,000 CNY * 2)
- [2016] DongHua Testing Technology (SZ300354) Fellowship (3,000 CNY)
- [2015] 3rd Prize in 4th Jiangsu province information security skills competition (500 CNY)

Fun facts about me

- I don't care about workspace, but it's best if there are green plants.
- My favorite communication style is to tell the truth, especially when we working together, please criticize directly. And lack of integrity is a bomb for cooperation with me.
- My parents are from the north and the south of China. Although they divorced when I was 12 years old, they are always with me.
- I am not very tall, just 161 cm like President Deng Xiaoping, who is also my favorite great person. And I am very healthy at least now.
- My first encounter with personal computers in 2004 and the Internet in 2006 when I was 9 years old because my family manage a print shop at that time. And since then I have had the experience of keeping the store.

Last updated on May. 2023