0086-18601150855 | wangjiawen21@mails.ucas.ac.cn | wangjiawennn99@163.com No. 19 Shucun Rd., Haidian Dist., Beijing, CN. 100085

EDUCATION BACKGROUND

University of Chinese Academy of Sciences (UCAS)

09/2021 - 07/2024

- ♦ Master of Engineering in Cyberspace Security; GPA: 3.92/4.00
- ♦ Institute of Information Engineering

Yunnan University

09/2017 - 06/2021

- ♦ Bachelor Degree of Engineering in Networking Engineering; GPA: 3.66/4.00 (Ranking: 4/62)
- ♦ National Pilot School of Software

Professional Skills:

- ♦ Languages: Java (JSP), XML, Python, etc.
- ♦ Frameworks: Spring Boot, AngularJS, etc.
- ♦ Tools: MySQL, Ionic, Flask, etc.

PUBLICATION LIST

- ♦ <u>I. Wang.</u> J Jiang, M Yu, et al., Assessing Backdoor Risk in Deepfake Detectors, 2024 Twentieth Annual IFIP WG 11.9 International Conference on Digital Forensics (Under Review).
- ♦ Z. Xie, <u>I. Wang</u>, X. Hong, Z. Ma and K. Yin, A Blockchain-based Platform of Housing Provident Fund Asset-backed Securitization, 2022 IEEE Asia-Pacific Conference on Image Processing, Electronics and Computers (IPEC).
- ♦ B. Tian, X. Chen, **J. Wang**, et al., A Blockchain-based Trusted Testing System of Electric Power Materials, 2021 IEEE 29th International Conference on Network Protocols (ICNP).
- Y. Song, J. Wang, S. Yang, X. Zhu, K, Yin, A Blockchain-Based Scheme of Data Sharing for Housing Provident Fund. 2021 ICPCSEE.

RESEARCH EXPERIENCE

Research on Backdoor Attack Assessment of Deepfake Detectors

11/2022 - Now

<u>Master Thesis</u>, <u>Guided by Prof. JIANG Jianguo (UCAS)</u>, <u>Affiliated to the National Key Project</u> of Research on Evaluation Techniques and Standards for Forensics Identification System of Human Videos and Images

- ♦ Proposed and designed a risk assessment method customized for Deepfake detectors.
- ♦ Used data poisoning to attack five common Deepfake detection models to expose the vulnerability.
- ♦ Designed an assessment method combining backdoor detection and repair technologies to measure the backdoor risk of a Deepfake detector, and tested the method.
- Obtained the experimental results to demonstrate the effectiveness of the proposed assessment method and suggested that existing Deepfake detectors are facing a common and highly harmful backdoor risk.
- ♦ Completed a paper of Assessing Backdoor Risk in Deepfake Detectors and submitted it to the Twentieth Annual IFIP WG 11.9 International Conference on Digital Forensics.

Intelligent Edge Devices-Based Object Recognition System for Construction Sites *Graduation Project, Guided by Prof. ZHAO Mingxiong, Yunnan University*09/2020 - 06/2021

- ❖ Applied Python to build an online collaborative work system combined with intelligent edge devices based on Flask framework, implemented real-time identification and alarm of dangerous behaviors in construction sites.
- Employed dataset to verify the small target recognition algorithm based on a one-stage neural network and the skeleton-based spatio-temporal graph convolution behavior recognition algorithm.
- Adopted the Jetson Nano camera as an edge device to collect data, employed the TensorRT acceleration model to improve the real-time performance of recognition and detection. An edge device of floading mechanism is designed to ensure the balance of computing power pressure.
- → Developed the available construction site target and behavior recognition system and obtained the honor of Excellent Graduation Project.

Development of Urban Intelligent Parking Lot Management System based on NB-IoT <u>Core Member</u>, Guided by Prof. YI Chao, Yunnan University 05/2018 - 04/2021

- Combined NB-IoT (Narrow Band Internet of Things) technology with traditional ground locks to implement the real-time data transmission of ground locks, thus achieving parking place management.
- ♦ Designed planning algorithm to realize the optimal parking place recommendation for customers.
- ♦ Utilized Spring Boot to develop a webpage system, implemented application development based on Ionic Framework to achieve real-time display and management of parking lot and revenue status.
- Awarded the Provincial Silver Award during China College Students Internet+ Innovation and Entrepreneurship Competition as well as the Excellent Project Award in the SHEN CHUANG CUP International University Students Innovation and Entrepreneurship Competition.

Optimization of Expressway Operation Settlement Platform based on Blockchain Technology Team Leader, Guided by Dr. CHEN Qingyi, Yunnan University 04/2018 - 06/2020

- Combined Blockchain distributed storage, and cryptography with the development of an expressway settlement platform to implement data management security and efficient and transparent management mode.
- Constructed the Blockchain data sharing platform based on Hyperledger Fabric and Hyperchain, applied SpringBoot to develop an available management platform, which can be used by three parties of car owners, expressway operators and expressway managers.
- Awarded School Bronze Award of China College Students Internet+ Innovation and Entrepreneurship Competition.

INTERNSHIP EXPERIENCE

Echaincity Technology Co., Ltd.

11/2020 - 02/2022

Intern in Technical Consulting Department, Guided by Dr. YIN Keting, Zhejiang University

- → Participated in the compilation of the book *Blockchain + Social Governance*, responsible for the collection of relevant materials and compilation of several sections.
- → Participated in the development projects of Trusted Testing System of Electric Power Materials, Data Sharing and Asset-backed Securitization for Housing Provident Fund.
- ♦ Applied Hyperchain to build a Blockchain-based data-sharing platform, and adopted Kubernetes and Spring Boot, etc., to develop a complete and usable data-sharing platform.
- ♦ Developed a complete and usable system according to the needs of users in different fields, and constantly explored the application boundaries and innovation space of the Blockchain.
- \diamond Successfully published two papers as 2^{nd} author and one paper as 3^{rd} author.

HONOR & AWARD

11/2022	1st Prize of 8th MEI YA CUP China Digital Data Forensics Competition
10/2022	2 nd Prize of CHANG AN CUP Digital Forensics Competition
12/2020	1st Class Scholarship of Yunnan University
07/2019	Provincial Silver Award of 5th China College Students Internet+ Innovation and Entrepre-
	neurship Competition
07/2019	School Bronze Award of 5th China College Students Internet+ Innovation and Entrepre-
	neurship Competition
12/2018	1st Class Scholarship of Yunnan University
08/2018	Excellent Project Award of 2nd SHEN CHUANG CUP International University Students In-
	novation and Entrepreneurship Competition