Li Zhou

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Education Background

King Abdullah University of Science and Technology(KAUST), KSA 2022 – 2024

Major: Computer Science
Master Thesis: Vulnerability Detection Through Binary Function Matching based on Lifting and Re-optimization
GPA: 3.8/4.0

University of Electronic Science and Technology of China(UESTC), China 2018 – 2022

Dual Degree: *B.Eng.* in Internet of Things and *B.Bus.* in Finance
Scholarship: National Inspirational Scholarship, School First Prize Scholarship
GPA: 3.8/4.0

Skills

- Programming Language Proficiency: Python > Go > C/C++ > Java
- CTF Experiences for Reverse Engineering
- Experienced in Computer Networks and Linux Server Maintenance

Research Experience

Binary Code Vulnerability Function Detection KAUST, KSA 2023.3 – 2024.7

Student Researcher Master Thesis Research

Leverage Code lifting to enhance binary function code similarity

Source Code vulnerability Detection Si Chuan, China 2020.11 – 2022.6

Student Researcher Project of Provincial Science and Technology Department

Use Graph Neural Network to find source code vulnerability patterns.

ASC22-23 Student Supercomputer Challenge 2019.12 – 2020.6

Participant NLP and Large Language Model (LLM) Training

Use machine learning method to complete cloze. And train an LLM called Yuan-1.0 with 5B parameters. Won global *Global* 1^{st} prize in the preliminary round.

Publications

- *IEEE DSC 6th* - GraphEye: A Novel Solution for Detecting Vulnerable Functions Based on Graph Attention Network 1^{st} Author
- *Under Review* - ReGraph: Re-optimization and Lifting for Binary Function Identification Leveraging CPGs and GNNs 1^{st} Author

Honors And Awards

US-Canada 1^{st} *Place* CSAW Embedded Security Challenge 2023.11
MENA 1^{st} *Place* CSAW Hack My Robot Challenge 2022.11
Global 1^{st} *Place* ASC22-23 Student Supercomputer Challenge Preliminary 2022.5
National 2^{nd} *Place* China software Cup Undergraduate software design competition 2021.7
National 2^{nd} *Place* National Professional Software Engineering "Blue Bridge Cup" contest 2021.3