Jianwei Huang

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O cloudz

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435 Nagle St, College Station, TX iianwei.me in jianwei-huang

Ph.D. student specializing in vulnerability detection using program analysis and LLM-assisted fuzzing Darpa AIxCC Final Competitor; DEF CON Speaker; Blackhat Speaker

Education

Texas A&M University

09/2019 - 12/2025(Expected)

Ph.D., Computer Science **Wuhan University**

College Station, TX 09/2014 - 06/2018

Bachelor of Engineering, Computer Science

Wuhan, China

Work Experience

Amazon

05/2025 - 08/2025 Austin, TX, USA

Security Engineer Intern

🗱 LLM-Assisted Threat Modeling, LangChain

- > Developing an agentic system for automating threat modeling in GenAl application security reviews, supporting extensibility across varied information sources
- > Identified a jailbreak attack on Amazon Nova Models

SRI International 05/2020 - 08/2020 Summer Intern Menlo Park, CA, USA

Android Application Reverse Engineering

- > Identified two vulnerabilities in the design of popular COVID tracking apps
- > Assessed the risks posed by two vulnerabilities in 10+ popular COVID tracking apps

Publications

LogicWeaver: Stitching Client Clues into Deep Web Fuzzing Paths with LLM assistance

In Submission

🗱 LLM Agent Development, LangChain

> **Jianwei Huang**, Guofei Gu

Beyond Visual Confusion: Understanding How Inconsistencies in ENS Normalization Facilitate Homoglyph At-WWW 2025 tacks

Android Reverse Engineering

> **Jianwei Huang**, Sridatta Raghavendra Chintapalli, Mengxiao Wang, Guofei Gu

SysFlow: Towards a Programmable Zero Trust Framework for System Security

IEEE TIFS 2023

🗱 Linux Kernel Programming

> Hong Sungmin, Lei Xu, **Jianwei Huang**, Hongda Li, Hongxin Hu, and Guofei Gu

SWAPP: A New Programmable Playground for Web Application Security

USENIX Security 2022

♥ Web Full Stack

> Phakpoom Chinprutthiwong, Jianwei Huang, and Guofei Gu

Practical Speech Reuse Prevention in Voice-driven Services

RAID 2021

🗱 Voice Signal Processing

> Yangyong Zhang, Sunpreet Arora, Maliheh Shirvanian, **Jianwei Huang**, Guofei Gu

Abusing Hidden Properties to Attack the Node.js Ecosystem

USENIX Security 2021

JavaScript Static/Dynamic Analysis

> Feng Xiao, Jianwei Huang, Yichang Xiong, Guangliang Yang, Hong Hu, Guofei Gu, Wenke Lee

Unexpected Data Dependency Creation and Chaining: A New Attack to SDN

IEEE S&P 2020

😋 Java Static Analysis

> Feng Xiao, Jinguan Zhang, **Jianwei Huang**, Guofei Gu, Dinghao Wu, Peng Liu

Discovering Hidden Properties to Attack the Node.js Ecosystem

Blackhat, 2020

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🗱 JavaScript Static/Dynamic Analysis

> Feng Xiao, Jianwei Huang, Yichang Xiong, Guangliang Yang, Hong Hu, Guofei Gu, Wenke Lee

Hacking the Brain: Customize Evil Protocol to Pwn an SDN Controller

DEF CON 26, 2018

🗱 Java Static Analysis

> Feng Xiao, **Jianwei Huang**, Peng Liu

Chaos: An SDN-Based Moving Target Defense System

SCN 2017

SDN Programming

> Yuan Shi, Huanguo Zhang, Juan Wang, Feng Xiao, **Jianwei Huang**, Daochen Zha, Hongxin Hu, Fei Yan, Bo Zhao

Curtain: Keep Your Hosts Away from USB Attacks

ISC 2017

Windows Kernel Programming, Machine Learning

> Jianming Fu, Jianwei Huang, and Lanxin Zhang

P Awards

AlxCC Final Competition 2025 – TBD in August

2025

> Contributed a fuzzing strategy with static analysis results and LLM assistance

TAMUCTF 2024 - 4th (TAMU), 50th Overall

2024

> Competed individually and solved all Web challenges.

BCTF 2015 - 1st Place

2015

> Focused on Web challenges

oCTF 2015 - 3rd Place

2015

> Focused on Web challenges

Software-Defined Networking (SDN) Development Competition - 2nd Prize

2015, China

> Designed a moving target defense mechanism with OpenDayLight, which rotates IP addresses in the network to obfusacte the topology

♥ Skills

Languages C, Python, Java

Program Analysis Static(Soot, esprima, CodeQL), Dynamic(Jalangi, ExpoSE)

GenAl Agent Development, LangChain