

# Jianwei Huang

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

## 🎓 Education

### Texas A&M University

Ph.D., Computer Science

09/2019 – 12/2025(Expected)

College Station, TX

### Wuhan University

Bachelor of Engineering, Computer Science

09/2014 – 06/2018

Wuhan, China

## 💼 Work Experience

### Amazon

Security Engineer Intern

05/2025 – 08/2025

Austin, TX, USA

⚙️ LLM-Assisted Threat Modeling, LangChain

- > Developing an agentic system for automating threat modeling in GenAI application security reviews, supporting extensibility across varied information sources

- > Identified a jailbreak attack on Amazon Nova Models

### SRI International

Summer Intern

05/2020 – 08/2020

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-At-WWW 2025

⚙️ 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, Jinquan 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

## 🏆 Awards

### AxCC Final Competition 2025 - 4th Place

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 obfuscate the topology

## ⚙️ Skills

**Languages** C, Python, Java

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

**GenAI** Agent Development, LangChain