MINGJUN YIN

PhD Candidacy

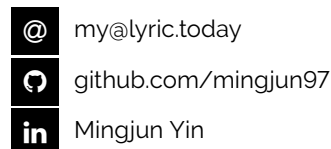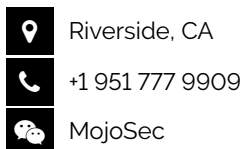Riverside, CA

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MojoSec

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Mingjun Yin

WHO AM I?

I love cool things that can make people life easier. I like things deterministic and quantifiable. I believe there are still lots of interesting things that could be discovered to improve our quality of life. Technology can change everything!

INTERESTED POSITION

Research or Engineer position for application or system security. Vulnerability discovering or analyzing. I'm most interested in Rust, Network Security, and Multi-modal transformer.

Python
Security
C/C++
JavaScript
Network & Cloud
React.js
Rust

PUBLICATIONS

2022 — **SymSan: Time and Space Efficient Concolic Execution via Dynamic Data-Flow Analysis**
USENIX 2022
An efficient implementation for concolic execution based on dynamic data-flow analysis.
```
Concolic Execution  /  LLVM
```

2021 — **Context-Aware Transfer Attacks for Object Detection**
AAAI 2022 Accepted
Black box attack generations utilizing context against object detectors.
```
Adversarial Machine Learning
```

2021 — **Exploiting Multi-Object Relationships for Detecting Adversarial Attacks in Complex Scenes**
ICCV 2021 Accepted
An object detector agnostic pseudo-language based context consistency checker implemented with BERT.
```
ML  /  BERT  /  Adversarial Machine Learning
```

2020 — **ADC: Adversarial attacks against object Detection that evade Context consistency checks**
WACV 2022 Accepted
A joint-optimization based attack method to bypass context consistency check in object detection Deep Neural Network.
```
ML  /  DNN  /  Adversarial Machine Learning
```

PROJECTS

2021 — **Galaxy Gallery**
Web Backend for High Throughput BitTorrent Private Tracker.
```
ASGI  /  Python  /  FastAPI  /  Redis  /  MongoDB  /  MySQL
```

2021 — **Baidu CTF Auto-pwn (Qingdao)**   Second place
Write a framework that invoking, managing, and synchronizing fuzzing instance across multiple machines
```
CTF  /  Auto-PWN  /  Fuzz  /  AFL++  /  QSym  /  Python
```

2019 — **Video Game Plugin**
A third-party game plugin for a MMO RPG game using remote thread injection.
```
Delphi  /  Hack  /  Reverse Engineer
```

2019 — **UCR MFA Passcode auto-filler**   github.com/mingjun97/ucr_mfa_crx
A browser extension to help user fill the MFA code on their trusted browser without required looking for their mobile phones.
```
Chrome Extension  /  Javascript  /  Security
```

2019 Collaborator	**YTMDesktop**	**github.com/ytmdesktop/ytmdesktop**

YTMDesktop
A third-party native desktop application for Youtube Music.
`Javascript / node.js / Electron`

2019   **PASK**   **github.com/mingjun97/pask**
A dummy MMORPG GAME based on Serverless Computation for illustration purpose. This work is implemented on AWS.
`Python / AWS / Socket.io / Javascript`

2019   **Volunteer Service Management System**   **github.com/HUST-CA/voluntary_service_team**
A work ticket management system integrated with SMS channel.
Online: https://nservice.hustca.com
`Python / Socket.io / Javascript / React.js`

2018   **DarkGenius**   **github.com/DarkSpiritLab**
An IP discovering tools for the website deployed in Tor Network. We customized the vanilla Tor Agent to make it works as a honey pot agent. Works in our virtual environment.
`Docker / C++ / RabbitMQ / React.js / Python`
Third Prize of National(China) College Student Information Security Competition

EDUCATION

2019 – 2024 Present	**Doctor of Philosophy, Computer Science** Advisor: Chengyu, Song	**University of California, Riverside**
2018 – 2019	**Exchange Student, Computer Science**	**University of California, Riverside**
2017 Summer	**Summer Program** The Dark Art: Attack and Defence	**National University of Singapore**
2015 – 2019	**Bachelor's Degree, Information Security** I used to class president for 3 years.	**Huazhong University of Science and Technology**

TEACHING

2021 Fall 2022 Spring	**Teaching Assistant** Lab instructor for the Design of Operating Systems

NON PROFIT

2016 – 2018	**Computer Association of Huazhong University of Science and Technology (HUSTCA)** I used to Chairman of HUSTCA and the Manager of Volunteer Computer Repair Service Team of HUSTCA and have been serving more than 300 laptops in my term.

LANGUAGES

Chinese - native
English - proficient

HOBBIES

Hack
Electronic product
Swim