Haolin Li

Email: haolinli20@fudan.edu.cn Phone: +1 (209)421-9219 Address: 5400 Lake Rd, Merced, CA

Education

Fudan University Sep. 2020 – Jul. 2025(Expected)

B.Eng in Information Security, School of Computer Science

- **GPA**: 3.26/4.0
- **Core Courses**: Operating Systems, Data Structures, Algorithm Analysis and Design, Software Security, Principles of Reverse Engineering, Object-Oriented Programming, Computer Networks, Probability and Mathematical Statistics

University of California, Merced Aug. 2023 – Present

Exchange Student in Computer Science and Engineering

- **Core Courses**: Introduction to Artificial Intelligence, Distributed Software Systems, Database Systems

Internship & Training

Heji Fund Feb. 2023 – Jul. 2023

Operations Engineer

- Designed and implemented factor backtesting programs using Python, along with Dolphindb scripting language, to assess the effectiveness (correlation) of backtesting factors.
- Maintained and installed Dolphindb databases on Linux servers, designed data table partitions and indexing methods. Responsible for data cleaning, organization, and import of new data, as well as maintaining and integrating old data.

Software Security Attack and Defense Practice Feb. 2023 – Jun. 2023

Software Security Course Training

- Conducted attack and defense practice on Ubuntu systems. Topic includes ROP Attack Analysis, Heap/Stack Overflow, TCP and Network Security, SQL Injection, Race Condition and Cache Security.

Selected Project

Privacy Protection for Mini-Programs - Python

Fudan University System and Security Lab

- Developed a scene-driven mini-program privacy compliance detection system, focusing on the lightweight and rich-scenario characteristics of mini-programs, to collect and analyze behavior information.
- Contributed to building the behavior exploration module for dynamic click exploration and screenshots based on visual analysis. Designed a dynamic behavior exploration module across multiple platforms to generate network traffic through page clicks, facilitating information capture for privacy compliance analysis.

WeChat Chatbot Based on Xposed Framework - Java

- Analyzed functions used for sending and receiving WeChat messages dynamically using Android monitor. Decompiled the WeChat installation package using JEB for further static analysis of functions, actual operations, and input parameters related to message reception and sending.
- Developed scripts using Xposed framework to hook message reception function (handle message) and sending function, integrating with Qingyunke chatbot API to achieve automatic chatbot functionality.

Xv6 Operating System - C

- Implemented kernel features including multiple system calls, pagetable, mmap, kernel memory allocator and userspace utilities, covering stack backtrace and symbolic link etc

Awards

- Third Prize in the National College Student Mathematical Modeling Competition, Shanghai Division November 2022
- Third Prize Fudan University Undergraduate Scholarship 2021, 2022, 2023

Technical Skills

Programming Languages: C/C++, Python, SQL, Java

Tools: Git, Linux, VS Code, Docker, Matlab, LaTeX, Jadx, JEB, IDA, Wireshark, Xposed,

Language: English, Chinese