Shenglong Yao

Education Background

City University of Hong Kong

Bachelor of Science in Computer Science   Expected Jun 2023

- CGPA: **4.11/4.3**, Major GPA: **4.22/4.3**, WES GPA: **3.96/4.0**
- HKSAR Government Scholarship (**Highest Honor for Academic Performance**)
- Asia-Pacific Economic Cooperation Scholarship
- Dean's List of College of Engineering for 5 semesters

Research Experience

Full Time Research Internship   Jun 2022 ~ Nov 2022
Supervisor: **Prof. Christopher Kruegel** and **Prof. Giovanni Vigna**   SecLab, UCSB

   Bruiser: An instrumented Crowd-sourced Browser to Generate Seeds for Browser Fuzzing
   Project Leader   Jun 2022 ~ Present

- Constructing a browser which can collect code coverage information and corresponding webpage information during practice usage for fuzzing seeds generation

Full Time Research / Technical Assistant   Jul 2021 ~ Jun 2022
Supervisor: **Prof. Cong Wang**   Department of Computer Science, City University of Hong Kong

   A Browser Extension Front-end Client for Metadata Hiding E2EE Messaging System
   Project Leader (Final Year Project)   Jun 2022 ~ Present

- Providing an easy-to-use client for TEE based metadata hiding E2EE online messaging system which takes remote attestation, dialing and cover traffic generation into consideration

   Proof of Unlearning: Definitions and Instantiation
   *Project Member, Second Author (submitted to **IEEE TIFS**)*   Mar 2022 ~ Jun 2022

- Provided a trusted hardware-empowered instantiation of the framework with SGX TEE

   Fuzzing Evaluation Benchmark with Artificial Bug Corpora
   Project Member   Sep 2021 ~ Mar 2022

- Implemented a constraint collector and solver for certain binary code blocks based on Klee and Z3 Solver
- Implemented an LLVM pass to realize bug insertion at any given code block

Publications

- Yiren Liu, S. Joe Qin, Xiangyu Zhao, Yixiao HUANG, **Shenglong Yao**, Guo Han. "Dynamic Statistical Learning with Engineered Features Outperforms Deep Neural Networks for Smart Building Cooling Load Predictions". Accepted by NeurIPS 2022 Workshop ICBINB.

- Jiasi Weng, **Shenglong Yao**, Yuefeng Du, Junjie Huang, Jian Weng, Cong Wang. "Proof of Unlearning: Definitions and Instantiation". Submitted to IEEE Transactions on Information Forensics & Security.

Competitions / Extracurricular Activities

CTF Player (PWNer and REer)   Jan 2021 ~ Present

- Team Leader of CITYFHK CTF Team of City University of Hong Kong
- Participated in the DEFCON Final 2022 with Shellphish

Global AI Challenge for Building E&M Facilities of 2022   Nov 2021 ~ Mar 2022

- Supervised by **Prof. Joe Qin** and **Dr. Xiangyu Zhao**
- Team member in charge of Autogluon baseline model and night model implementation
- Won Grand Prize: Microsoft Outstanding AI Influencer Award and Gold Award (Total $13000 Award) and the research result is accepted by NeurIPS 2022 Workshop ICBINB

AWS Educate Student Ambassador   Jan 2022 ~ Present

- Promoting cloud computing knowledge to university students and teenagers