

Yibo Wang

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EDUCATION

<i>Syracuse University</i> PhD., Computer Science	<i>08/2020 ~ Now</i> Syracuse, NY
<i>Syracuse University</i> M.S., Computer Engineering	<i>05/2019</i> Syracuse, NY
<i>Huazhong University of Science and Technology (HUST)</i> Bachelor's degree in Electronic Information Engineering	<i>06/2016</i> Wuhan, China

Publications

- Enabling Cost-Effective Blockchain Applications via Workload-Adaptive Transaction Execution *Yibo Wang, Yuzhe Tang, Poster ACM CCS 2022*
- iBatch: Saving Ethereum Fees via Secure and Cost-Effective Batching of Smart-Contract Invocations *Yibo Wang, Qi Zhang, Kai Li, Yuzhe Tang, Jiaqi Chen, Xiapu Luo, Ting Chen, ESEC/FSE 2021*
- DETER: Denial of Ethereum Txpool sERvices *Kai Li, Yibo Wang, Yuzhe Tang, ACM CCS 2021*
- TopoShot: Uncovering Ethereum's Network Topology Leveraging Replacement Transactions *Kai Li, Yuzhe Tang, Jiaqi Chen, Yibo Wang, Xianghong Liu, ACM IMC 2021*
- Scalable Log Auditing on Private Blockchains via Lightweight Log-Fork Prevention *Yuzhe Tang, Kai Li, Yibo Wang, Sencer Burak Somuncuoglu, SERIAL@Middleware 2020*

Talks

- Towards the Comprehensive Understanding of Ethereum Mempool DoS Security *Yibo Wang, Kai Li, Yuzhe Tang, Consensusday 2022/Workshop of ACM CCS 2022*

Research Project

Deep Neural Network, Convolutional Neural Network & Recurrent Neural Network, Syracuse University 05-08/2019

- Conducted research on radio frequency machine learning. Used convolutional neural network on channel matrix provided by Wi-Fi transmitters and receivers to give prediction of human recognition and identification based on movement detection

Work EXPERIENCE

Fulton, Global Supply Chain, Pulaski, New York 08-12/2019

- Provided IT support for supply chain groups: by creating effective formulas and filters, team members can be more efficient analyzing the quote, placing purchasing order with Odoo system; making inventory data more intuitive and easier to spot problems in shipments, arrivals, sales and inventory
- Communicate with suppliers about quotation, part information, parts repair and getting credit issues, so that we can get the lowest quotation in a timely manner, provide engineers with data as quickly as possible, so that accumulated parts repair and refund issues can be resolved in a timely manner

Engineering Project

Computer Security, Syracuse University 08-12/2018

- Completed several labs about attack and defense on some well-known vulnerabilities on Linux: Shellshock Attack, Buffer Overflow Attack, Format String Vulnerability and Dirty COW
- Gained deep understanding why a computer or a program can be attacked, what is under the hood in these attacks, and how to write better programs so they are immune or more resilient to attacks

AWARDS & CERTIFICATION

CCS'22 workshop registration fellowship	<i>protocol Lab</i>	<i>10/2022</i>
USENIX Security '21 Grant	<i>USENIX Security</i>	<i>07/2021</i>
Student Registration Grant	<i>IEEE Symposium on Security and Privacy</i>	<i>05/2021</i>
Graduate Award (50% tuition scholarship)	<i>Syracuse University</i>	<i>05/2017</i>