

Yibo Wang

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EDUCATION

Syracuse University

PhD., Computer Science

Syracuse University

M.S., Computer Engineering

Huazhong University of Science and Technology (HUST)

Bachelor's degree in Electronic Information Engineering

Now

Syracuse, NY

05/2019

Syracuse, NY

06/2016

Wuhan, China

Publications

- 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*

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, Intern in 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

eBook Reader, Syracuse University

03-05/2019

- Built an eBook reader that supports PDF documents with ability to select and view both publicly available documents for anonymous users, and private documents for authenticated users using Asp.Net Core MVC
- Webservice built using Asp.Net Web API with an ability to upload, replace, and delete stored documents, Web Service Clients built with WPF

Uber competitor Database, Syracuse University

02-03/2019

- Built a database used in Uber competitor. Stored information of customers, drivers and record of reservation, rating and billing information with SQL Server. Gained skills of SQL, database design and implementation, performance optimization

Principles Operating Systems, Syracuse University

08-12/2018

- Added multi-threading capabilities to Nachos with C++, implemented several system call routines for user programs and round-robin scheduling, implemented Nucleus Message Passing as system calls to be called by user programs
- Mastered the debugging and compiling of C++ under Linux system, enhanced code capabilities, gained a deep understanding of the underlying implementation of the operating system

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

Remote Code Repository, Syracuse University

01-05/2018

- Developed a Remote Code Repository, local client, and communication channel that supports client access to the Repository from any internet enabled processor with socket in C++, support storing package metadata in the NoSQL database

AWARDS & CERTIFICATION

USENIX Security '21 Grant

USENIX Security

07/2021

Student Registration Grant

IEEE Symposium on Security and Privacy

05/2021

Graduate Award (50% tuition scholarship)

Syracuse University

05/2017