Yifan Tian

EDUCATION

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• Embry-Riddle Aeronautical University Ph.D. in Computer Science; GPA: 4.0	Daytona Beach, FL Jan 2016 – Dec 2019
• Johns Hopkins University • M.S. in Security Informatics; GPA: 3.5	Baltimore, MD Aug 2014 – Dec 2015
• Tongji University B.Eng. in Information Security; GPA: 3.5	Shanghai, China Sep 2010 – Jun 2014
Research Projects	
 Low-Cost NLOS UAV Invasion Detection (Accepted in AIAA/IEEE DASC'19): Wireless Network: Collect and analyze UAV (drone) received signal strength indicators Pi and achieve competitive invasion detection accuracy against expensive radar & acoustic Deep Learning: Build deep neural networks (DBN & LSTM) using Tensorflow & Keras to 	May 2018 – Oct 2019 with low-cost Raspberry matrix based solutions o detect drone invasion
 Lightweight Edge Assisted Privacy-preserving CNN (Accepted in SecureComm'19): Cryptography: Design a lightweight cryptosystem to support secure CNN data outsourci CNN: Apply to well-known models (AlexNet & LeNet) and achieve same accuracy while provide the secure of the secure context of	Sep 2017 – Oct 2019 ng to cloud/edge server protecting user privacy
 Privacy-preserving Truth Discovery with Blockchain (Accepted in DLoT'19): Blockchain: Design Ethereum smart contract to achieve high accuracy in decentralized tr Privacy: Integrate differential privacy techniques to protect user data privacy with minor 	Apr 2018 – Oct 2018 uth discovery tasks accuracy trade off
 Cloud Assisted Privacy-preserving Image Annotation (Accepted in IEEE CNS'17): Image Processing: Use OpenCV and Scipy to implement an image annotation scheme in extraction, vector normalization and dimension deduction Cryptography: Protect image feature privacy against public cloud by integrating homom 	Sep 2016 – Apr 2017 cluding feature orphic encryption
 Privacy-Preserving K-means Clustering (Accepted in IEEE TCC'17): Privacy: Design a clustering algorithm over encrypted data to achieve high accuracy while Map Reduce: Introduce secure map reduce to suit cloud environment and enable scalability 	Sep 2016 – Jan 2017 e protecting privacy ity
 Social Behavior Based Cross SNS Phishing Attacks (Accepted in IEEE CNS'16): Web Crawler: Use Scrapy and Selenium to implement Python crawlers to collect persona public online resources and social network services (SNSs) in ethical style 	Jan 2016 – May 2016 Il information from

• Social Engineering: Analyze and propose a SNS linkage cut-off strategy to minimize information leak issue

WORKING EXPERIENCE

Agari Data.	Inc	Foster City CA
 DevOps Engine 	er	Feb 2020 – present
Research Intern	ı	Jun 2018 – Aug 2018, May 2019 – Aug 2019
 Ruby Rails: Deploy an AWS EC2 Rails App to enable organized scammer baiting, IP tracking & geo-localization Python Flask: Design Flask honeypot to trick scammers and collect in-depth scammer intelligence on AWS S3 		
\circ React.js:	Build a React.js visualizer with Splunk to analyze sca	mmer behaviors and depict scammer connections
Embry-Ridd	le Aeronautical University	Daytona Beach, FL

Embry-Riddle Aeronautical University

Research Assistant Sep 2018 - May 2019, Sep 2019 - Dec 2019 • Cybersecurity: Conduct cybersecurity research including cloud & IoT security, data privacy, phishing defense etc Aug 2017 - May 2018

• Java & Algorithm: Teach Java programming, data structures and algorithms, provide tutoring hours & grading

PROGRAMMING SKILLS

Instructor

• Languages: Python, Ruby, Java, C\C++, React.js, PHP, SQL, CSS, Matlab, LATFX

• Frameworks & Libraries: Tensorflow, Keras, SciPy, NumPy, Scrapy, Selenium, OpenCV, Flask, AWS SDK, Elasticsearch, Splunk, Rails, Docker, Nginx, Apache, Metasploit, Nessus, Air-crack, Wireshark