# **Tran Duc Muoi (Muoi Tran)**

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### Research Interests\_

Network security; blockchain security and privacy

### Education

### **School of Computing, National University of Singapore**

Singapore

Ph.D., Computer Science

08/2016 - Present

- · Advisor: Dr. Min Suk Kang, Assistant Professor
- CAP: 4.33/5.0

#### University of Engineering and Technology, Vietnam National University

Hanoi, Vietnam 08/2011 – 07/2015

B.S., Computer Science

- CAP: 3.49/4.0. Honor programme with highest distinction
- Thesis: "Some Improvements for Regular Expression Solving in Z3-Regex"
- Thesis advisor: Associate Professor Hoang Truong

### Employment \_\_\_\_\_

#### IBM Blockchain Research, IBM Studio

Singapore

Intern Researcher

05/2018 - 08/2018

• Supervisor: Dr. Pralhad Deshpande

#### School of Computing, National University of Singapore

Singapore

Research Assistant

01/2016 - 07/2016

· Supervisor: Associate Professor Chin Wei Ngan

#### School of Computing, National University of Singapore

Singapore

Intern Researcher

07/2015 - 01/2016

• Supervisor: Associate Professor Chin Wei Ngan

### **Honors & Awards**

#### **President's Graduate Fellowship**

2019 – 2020

Awarded by National University of Singapore

#### **I&E Practicum@SoC**

20.0

2018

• 10,000 SGD grant

### **NUS Research Scholarship**

2016 – 2019

Awarded by National University of Singapore

### **Honda Y-E-S Award Vietnam**

2015

2015

Awarded by Honda Foundation to 10 Vietnamese students
 Best undergraduate thesis defense

### • Awarded by University of Engineering and Technology, Vietnam National University

2015

1st Prize in Student Scientific Research Contest

2010

• Awarded by University of Engineering and Technology, Vietnam National University

#### **GE Foundation Scholar Leadership**

2012

Awarded by GE Foundation to 10 best first-year undergraduate students

JUNE 15, 2019 MUOI TRAN · CV

### **Publications**

#### 1. A Stealthier Partitioning Attack against Bitcoin Peer-to-Peer Network

San Francisco, CA, USA

Muoi Tran, Inho Choi, Gi Jun Moon, Anh V. Vu, Min Suk Kang

05/2020

(To Appear) In Proceedings of IEEE Symposium on Security and Privacy (IEEE S&P)

### 2. Practical Verifiable In-network Filtering for DDoS defense

Dallas, TX, USA

Deli Gong(\*), Muoi Tran(\*), Shweta Shinde, Hao Jin, Vyas Sekar, Prateek Saxena, Min Suk Kang

07/2019

- (\*) Lead authors alphabetically ordered
- In Proceedings of IEEE International Conference on Distributed Computing Systems (IEEE ICDCS)
- Acceptance rate: 19.6%

### 3. On the Feasibility of Rerouting-based DDoS Defenses

San Francisco, CA, USA

Muoi Tran, Min Suk Kang, Hsu-Chun Hsiao, Wei-Hsuan Chiang, Shu-Po Tung, Yu-Su Wang

05/2019

- In Proceedings of IEEE Symposium on Security and Privacy (IEEE S&P)
- Acceptance rate: 11.7% (84 out of 720)

#### 4. Obscuro: A Bitcoin Mixer using Trusted Execution Environments

San Juan, PR, USA

Muoi Tran, Loi Luu, Min Suk Kang, Iddo Bentov, Prateek Saxena

12/2018

- In Proceedings of Annual Computer Security Applications Conference (ACSAC)
- Acceptance rate: 20.1% (60 out of 299)

## Teaching \_\_\_\_\_

### School of Computing, National University of Singapore

Singapore

Teaching Assistant

- CS5231 System Security (Sem1 2017/18)
- CS5321 Network Security (Sem2 2016/17)
- CS2106 Introduction to operating systems (Sem2 2016/17)
- CS2104 Programming language concepts (Sem1 2016/17)

### Professional Service \_\_\_\_\_

Program committee

• NUS Computer Science Research Week 2019

Conference external reviewer

- 18th World Conference on Information Security Applications (WISA'17)
- 18th International Conference on Verification, Model Checking, and Abstract Interpretation (VMCAI'17)
- Proceeding of Object-oriented Programming, Systems, Languages, and Applications (OOPSLA'16)

Exhibition presenter

• GovWare 2017 - Singapore International Cyber Week (SICW'17)

### References \_\_\_\_\_

### Dr. Min Suk Kang (advisor)

Assistant Professor

- School of Computing, National University of Singapore
- Email: kangms@comp.nus.edu.sg

### Dr. Prateek Saxena (collaborator)

Assistant Professor

- · School of Computing, National University of Singapore
- · Email: prateeks@comp.nus.edu.sg