

Shiqi Shen

CONTACT INFORMATION

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RESEARCH INTERESTS

Binary Analysis, Program Analysis, System Security, Deep Learning.

EDUCATION

- **National University of Singapore, Singapore**
Ph.D., Computer Science, Fall 2015 - Present
 - *GPA*: 4.58/5
 - *Advisor*: [Prateek Saxena](#)
- **Wuhan University, Wuhan, Hubei Province, China**
Bachelor in Information Security, Fall 2011-June 2015
 - *GPA*: 3.87/4
 - *Thesis*: “The Analysis of Android Malware Detection Methods Based on Dynamic Behaviors”
 - *Advisor*: [Guojun Peng](#)

PUBLICATION

Shiqi Shen, Shruti Tople, and Prateek Saxena,
AUROR: Defending Against Poisoning Attacks in Collaborative Deep Learning Systems
In the 32nd Annual Computer Security Applications Conference (ACSAC 2016)

Zheng Leong Chua*, **Shiqi Shen***, Prateek Saxena, and Zhenkai Liang,
Neural Nets Can Learn Function Type Signatures From Binaries
In the 26th USENIX Security Symposium (USENIX 2017)
* Lead authors are alphabetically ordered.

Shiqi Shen, Shweta Shinde, Soundarya Ramesh, Abhik Roychoudhury, and Prateek Saxena,
Neuro-Symbolic Execution: Augmenting Symbolic Execution with Neural Constraints
In the 26th Network and Distributed System Security Symposium (NDSS 2019)

Teodora Baluta, **Shiqi Shen**, Shweta Shinde, Kuldeep S. Meel, Prateek Saxena,
Quantitative Verification of Neural Networks And Its Security Applications,
In the 26th ACM Conference on Computer and Communications Security (CCS 2019)

POSTERS

Shiqi Shen and Soundarya Ramesh
Domain-agnostic Constraint Synthesis
In Deep Learning Security Workshop, 2017

Teodora Baluta, **Shiqi Shen**, and Alexandros Dimos
Recovering Types in Binaries
In Deep Learning Security Workshop, 2017

PAPERS UNDER SUBMISSION

Shiqi Shen, Aashish Kolluri, Zhen Dong, Prateek Saxena, Abhik Roychoudhury
Automatic Patch Localization From Exploits

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| PROFESSIONAL SERVICES | <ul style="list-style-type: none"> Sub-reviewer for • IEEE Symposium on Security & Privacy (2016, 2017) • International Journal of Security and Networks (2018) • USENIX Security Symposium (2019) | |
| PROFESSIONAL EXPERIENCE | <ul style="list-style-type: none"> • Teaching Assistant for Web Security (CS5331) • Teaching Assistant for Computer Security (CS3235) • Teaching Assistant for Web Security (CS5331) • Teaching Assistant for Software Security (CS4239) • Teaching Assistant for System Security (CS5231) | <p>Jan 2016 - Apr 2016</p> <p>Aug 2016 - Sept 2016</p> <p>Jan 2017 - Apr 2017</p> <p>Aug 2017 - Nov 2017</p> <p>Aug 2018 - Nov 2018</p> |
| AWARDS | <ul style="list-style-type: none"> • NUS Research Scholarship | 2015 - 2019 |