Shweta Shinde

PhD Candidate
School of Computing, National University of Singapore

CONTACT INFORMATION

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RESEARCH INTERESTS

Trusted Computing, Systems Security, Programming Languages, Web Security

EDUCATION

National University of Singapore, Singapore

Ph.D. Candidate, Computer Science, August 2013 - August 2018 (expected)

- Dissertation Topic: "Protecting User Applications from Untrusted Operating Systems"
- Advisor: Prateek Saxena

College of Engineering Pune, University of Pune, India

B.Tech., Information Technology, 2008 - 2012

- GPA: 9.2/10, Rank 3
- Dissertation Topic: "Multi-tenancy in Storage Cloud using Operating System Virtualization"
- Advisor: Sandeep Patil (IBM Corporation)

HONORS AND AWARDS

President Graduate Fellowship, National University of Singapore, 2013 - 2017
Professional Activities Grant, ACM SIGPLAN Professional Activities Committee, 2014
Postgraduate Travel Grant, School of Computing, National University of Singapore, 2014-2017

PROFESSIONAL EXPERIENCE

Graduate Intern Technical, Intel Labs, Hillsboro, OR, USA	Jun 2017 - Aug 2017
Teaching Assistant CS5331 Web Security, National University of Singapore	Jan 2014 - May 2014
Research Intern, National University of Singapore	Aug 2012 - Aug 2013
Research Intern, India Storage Lab, IBM Corporation, Pune, India	Jan 2012 - May 2012
Summer Intern, Cummins India Ltd., Pune, India	Jun 2011 - Aug 2011

PROFESSIONAL SERVICES

Sub-reviewer

- USENIX Security Symposium (2013, 2014)
- IEEE Symposium on Security & Privacy (2014, 2015, 2016)

PUBLICATIONS

Shweta Shinde, Dat Le Tien, Shruti Tople, and Prateek Saxena. Panoply: Low-TCB Linux Applications with SGX Enclaves. In the Proceedings of the *24th Annual Network and Distributed System Security Symposium (***NDSS***), March 2017.*

Shweta Shinde, Zheng Leong Chua, Viswesh Narayanan, and Prateek Saxena. Preventing Page Faults from Telling your Secrets. In the Proceedings of the *11th ACM Asia Conference on Computer and Communications Security (***ASIACCS***), June 2016.*

Hong Hu, Shweta Shinde, Sendroiu Adrian, Zheng Leong Chua, Prateek Saxena, and Zhenkai Liang. Data-Oriented Programming: On the Expressiveness of Non-Control Data Attacks. In the Proceedings of the *36th IEEE Symposium on Security and Privacy (****S&P****), May 2016.*

Inian Parameshwaran, Enrico Budianto, Shweta Shinde, Hung Dang, Atul Sadhu, and Prateek Saxena. Auto-patching DOM-Based XSS At Scale. In the Proceedings of the *10th ACM SIGSOFT Symposium on the Foundations of Software Engineering (***FSE***), August 2015.*

Loi Luu, Shweta Shinde, Prateek Saxena and Brian Demsky. A Model Counter for Constraints Over Unbounded Strings. In the Proceedings of the *35th Annual ACM SIGPLAN Conference on Programming Language Design and Implementation (**PLDI**), June 2014.*

Shruti Tople, Shweta Shinde, Zhaofeng Chen, and Prateek Saxena. AUTOCRYPT: Enabling Homomorphic Computation on Servers To Protect Sensitive Web Content. In the Proceedings of the *20th ACM Conference on Computer and Communications Security* **(CCS)**, *October 2013.*

TECHNICAL REPORTS

Shweta Shinde, Shruti Tople, Deepak Kathayat and Prateek Saxena. PODARCH: Protecting Legacy Applications with a Purely Hardware TCB. https://www.comp.nus.edu.sg/ shweta24/podarch. School of Computing, National University of Singapore, February 2015.

TOOLS & POSTERS

Inian Parameshwaran, Enrico Budianto, Shweta Shinde, Hung Dang, Atul Sadhu, and Prateek Saxena. DEXTERJS: Robust Testing Platform for DOM-based XSS Vulnerabilities. In the Proceedings of the *10th ACM SIGSOFT Symposium on the Foundations of Software Engineering (**FSE**), August 2015.*

Shweta Shinde, Shruti Tople, Deepak Kathayat and Prateek Saxena. Poster: PODARCH: Protecting Legacy Applications with a Purely Hardware TCB. *35th IEEE Symposium on Security and Privacy (**S&P**), May 2015.*