Ali Raza

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Boston, MA, USA

Research Interests

I am interested in Operating Systems research working on the Unikernel Linux (UKL) project. I am building unmodified applications into Linux based unikernels and studying their performance and security benefits.

Education

Sep 2017 - Present	**Ph.D. Computer Science** Boston University Advisor: Prof. Orran Krieger
Sep 2014 - Jun 2016	**M.S. Computer Science** Lahore University of Management Sciences, Pakistan
Sep 2008 - Jun 2012	**B.S. Electrical Engineering** Lahore University of Management Sciences, Pakistan

Publications

- **Unikernels: The Next Stage of Linux's Dominance**
  Ali Raza, Parul Sohal, James Cadden, Jonathan Appavoo, Ulrich Drepper, Richard Jones, Orran Krieger, Renato Mancuso and Larry Woodman
  Workshop on Hot Topics in Operating Systems (**HotOS '19**), Bertinoro, Italy, May 2019.

- **Using SGX-Based Virtual Clones for IoT Security**
  Rashid Tahir, Ali Raza, Fareed Zaffar, Faizan Ul Ghani, Mubeen Zulfiqar
  2018 IEEE 17th International Symposium on Network Computing and Applications (**IEEE NCA**), Boston, MA, USA, Nov 2018.

- **A Secure Cloud with Minimal Provider Trust**
  Amin Mosayyebzadeh, Gerardo Ravago, Apoorve Mohan, Ali Raza, Sahil Tikale, Nabil Schear, Trammell Hudson, Jason Hennessey, Naved Ansari, Kyle Hogan, Charles Munson, Larry Rudolph, Gene Cooperman, Peter Desnoyers, Orran Krieger
  10th USENIX Workshop on Hot Topics in Cloud Computing (**HotCloud 18**), Boston, MA, USA, July 2018.

- **It's All in the Name: Why Some URLs are More Vulnerable to Typosquatting**
  Rashid Tahir, Ali Raza, Faizan Ahmad, Jehangir Kazi, Fareed Zaffar, Chris Kanich, Matthew Caesar
  IEEE International Conference on Computer Communications (**IEEE INFOCOM 2018**), Honolulu, Hawaii, USA, April 2018.

- **An Anomaly Detection Fabric for Clouds Based on Collaborative VM Communities**
  Rashid Tahir, Ali Raza, Mazhar Naqvi, Fareed Zaffar and Matthew Caesar
  17th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (**CCGrid**), Spain, May 2017.

Experience

May 2018 - Present	**Research Intern** Red Hat, Boston, MA, USA
Jun 2016 - Jul 2017	**Research Intern** Lahore University of Management Sciences, Pakistan

Programming Skills

Languages: C/C++, Python, MATLAB, Bash
Interests: Linux Kernel, glibc