

CONTACT INFORMATION	Intel Jones Farm 2 (JF2) Building, 2111 NE 25th Ave, Hillsboro, OR 97124	E-mail: asim.jamshed@gmail.com WWW: ajamshed.github.io
INTERESTS	Networked systems design & implementation, distributed systems, network security and operating systems.	
EDUCATION	Korea Advanced Institute of Science & Technology (KAIST) , Republic of Korea <ul style="list-style-type: none"> • PhD, Electrical Engineering (Spring 2017). Advisor – Prof. KyoungSoo Park University of Pittsburgh , Pittsburgh, Pennsylvania, USA <ul style="list-style-type: none"> • MS, Computer Science (Apr 2010). Advisors – Prof. KyoungSoo Park & Prof. Daniel Mossé Lahore University of Management Sciences , Pakistan <ul style="list-style-type: none"> • BSc (Hons), Computer Science, (May 2005). 	
EMPLOYMENT EXPERIENCE (SELECTED)	Intel Jones Farm 2 (JF2) , Hillsboro, OR <ul style="list-style-type: none"> • Research Scientist (May 2017-onwards). Mentor – Christian Maciocco International Computer Science Institute (ICSI) , Berkeley, CA <ul style="list-style-type: none"> • Research Intern (May 2014-Aug 2014, Oct 2015-Dec 2015). Mentor – Dr. Robin Sommer • Developed Packet Bricks. See [2] in Projects section. Palmchip Corporation , Lahore, Pakistan <ul style="list-style-type: none"> • Software Engineer (May 2005-July 2006). Mentor – Ahrar Naqvi • Optimized bootloader & filesystem performances for an system-on-chip network-attached storage device series. 	
PROJECTS/ SOFTWARE (SELECTED)	<ol style="list-style-type: none"> mOS STACK (https://github.com/ndsl-kaist/mOS-networking-stack) <ul style="list-style-type: none"> • A Specialized Network Programming Library for Stateful Middleboxes. • <i>Pub</i>: NSDI 2017, URL: http://mos.kaist.edu/ • NSDI Best Paper Award 2017. PACKET BRICKS (https://github.com/bro/packet-bricks) <ul style="list-style-type: none"> • A netmap-based packet layer for distributing and filtering traffic. mTCP (https://github.com/eunyoung14/mtcp/) <ul style="list-style-type: none"> • A Highly Scalable User-level TCP Stack for Multicore Systems. • NSDI Community Award 2014, Runner-up Samsung HumanTech Paper Award 2014. • <i>Pub</i>: NSDI 2014, URL: http://shader.kaist.edu/mtcp/ KARGUS <ul style="list-style-type: none"> • A Highly-scalable Software-based Network Intrusion Detection System. • “10 Achievements of 2012 that put KAIST on the Spotlight.” • <i>Pub</i>: CCS 2012, URL: http://shader.kaist.edu/kargus/ 	
PUBLICATIONS (SELECTED)	<ol style="list-style-type: none"> [1] “mOS: A Reusable Networking Stack for Flow Monitoring Middleboxes.” NSDI 2017 - Best Paper Award [2] “APUNet: Revitalizing GPU as Packet Processing Accelerator.” NSDI 2017 [3] “DFC: Accelerating String Pattern Matching for Network Applications.” NSDI 2016 [4] “Haetae: Scaling the Performance of Network Intrusion Detection with Many-core Processors.” RAID 2015 [5] “A Case for a Stateful Middlebox Networking Stack.” SIGCOMM CCR 2015 [6] “mTCP: a Highly Scalable User-level TCP Stack for Multicore Systems.” NSDI 2014 - Community Award [7] “Kargus: a Highly-scalable Software-based Intrusion Detection System.” CCS 2012 [8] “Suppressing Bot Traffic with Accurate Human Attestations.” ApSys 2010 [9] “Sentinel: Hardware-Accelerated Mitigation of Bot-Based DDoS Attacks.” ICCCN 2008 [10] “In-Network Server-Directed Client Authentication and Packet Classification.” LCN 2010 	
AWARDS	NSDI Best Paper Award 2017 for mOS 2 nd Runner-up Samsung Humantech Paper Award 2016 for DFC NSDI Community Award 2014 for mTCP Runner-up Samsung Humantech Paper Award 2014 for mTCP “10 Achievements of 2012 that put KAIST on the Spotlight” for Kargus Graduate Fellowship Spring 2006 Undergraduate Dean’s Honor List 2001-03	
SKILLS	C/C++, Java, C#, Python, CUDA, Lua, Awk, Javascript, Linux shell scripting, HTML, XML, Unix/GNU Linux, x86 Assembly, TILE-Gx programming, L ^A T _E X	