

CONTACT INFORMATION	SEA42 - Corp Office -re:Invent Building, 2121 8th Ave, Seattle, WA 98121	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 '17). Advisor – Prof. KyoungSoo Park University of Pittsburgh , Pittsburgh, Pennsylvania, USA <ul style="list-style-type: none"> MS, Computer Science (Apr '10). Advisors – Prof. KyoungSoo Park & Prof. Daniel Mossé Lahore University of Management Sciences , Pakistan <ul style="list-style-type: none"> BSc (Hons), Computer Science, (May '05). 	
EMPLOYMENT EXPERIENCE (SELECTED)	Amazon Web Services (AWS) , Seattle, WA <ul style="list-style-type: none"> SDE II, EC2 VPC (Aug '20-onwards). Reporting to Padmanaban Balasubramaniam (SDM) Intel Labs, Intel Jones Farm 2 (JF2) , Hillsboro, OR <ul style="list-style-type: none"> Research Scientist, Telco Systems (May '17-Aug '20). Reporting to Christian Maciocco (Principal Engineer) International Computer Science Institute (ICSI) , Berkeley, CA <ul style="list-style-type: none"> Research Intern (May '14-Aug '14, Oct '15-Dec '15). Mentor – Dr. Robin Sommer Developed Packet Bricks. See [3] in Projects section. Palmchip Corporation , Lahore, Pakistan <ul style="list-style-type: none"> Software Engineer (May '05-July '06). Reporting to Ahrar Naqvi (VP Engineering) Optimized bootloader & filesystem performances for an system-on-chip network-attached storage device series. 	
PROJECTS/ SOFTWARE (SELECTED)	<ol style="list-style-type: none"> OMEC PROJECT (https://github.com/omec-project/ngic-rtc) <ul style="list-style-type: none"> Control User Plane Separated (CUPS) TS23501 based EPC Service & Packet Gateways (SGW, PGW) URL: https://www.opennetworking.org/omec/ mOS STACK (https://github.com/ndsl-kaist/mOS-networking-stack) <ul style="list-style-type: none"> A Specialized Network Programming Library for Stateful Middleboxes. Pub: NSDI 2017, URL: http://mos.kaist.edu/ 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. Pub: NSDI 2014, URL: http://shader.kaist.edu/mtcp/ KARGUS <ul style="list-style-type: none"> A Highly-scalable Software-based Network Intrusion Detection System. Pub: CCS 2012, URL: http://shader.kaist.edu/kargus/ 	
PUBLICATIONS (SELECTED)	<ol style="list-style-type: none"> [1] “AccelTCP: Accelerating Network Applications with Stateful TCP Offloading.” NSDI '20 [2] “Reducing Tail Latency via Safe and Simple Duplication.” CoNEXT '19 [3] “mOS: A Reusable Networking Stack for Flow Monitoring Middleboxes.” NSDI '17 - Best Paper Award [4] “APUNet: Revitalizing GPU as Packet Processing Accelerator.” NSDI '17 [5] “DFC: Accelerating String Pattern Matching for Network Applications.” NSDI '16 [6] “Haetae: Scaling the Performance of Network Intrusion Detection with Many-core Processors.” RAID '15 [7] “mTCP: a Highly Scalable User-level TCP Stack for Multicore Systems.” NSDI '14 - Community Award [8] “Kargus: a Highly-scalable Software-based Intrusion Detection System.” CCS '12 [9] “Suppressing Bot Traffic with Accurate Human Attestations.” ApSys '10 [10] “Sentinel: Hardware-Accelerated Mitigation of Bot-Based DDoS Attacks.” ICCCN '08 	
AWARDS	ONF OMEC/COMAC Community Award, & Intel Division Recognition Award for OMEC NSDI Best Paper Award 2017 for mOS 2 nd Runner-up Samsung Humantech Paper Award 2016 for DFC NSDI Community Award 2014, & 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++, C#, Java, Python, CUDA, Lua, Javascript, HTML/XML, Linux, x86 Assembly, TILE-Gx, Intel DPDK	