

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.	
EMPLOYMENT EXPERIENCE (SELECTED)	<p>Amazon Web Services (AWS), Seattle, WA</p> <ul style="list-style-type: none"> • SDE II, EC2 VPC (Aug '20-onwards). Building VPC features for Nitro-based AWS droplets. <p>Intel Labs, Intel Jones Farm 2 (JF2), Hillsboro, OR</p> <ul style="list-style-type: none"> • Research Scientist, Telco Systems (May '17-Aug '20). Worked on Aether project. See [1] in Projects section. <p>International Computer Science Institute (ICSI), Berkeley, CA</p> <ul style="list-style-type: none"> • Research Intern (May '14-Aug '14, Oct '15-Dec '15). Developed Packet Bricks. See [4] in Projects section. <p>Palmchip Corporation, Lahore, Pakistan</p> <ul style="list-style-type: none"> • Software Engineer (May '05-July '06). 	
PROJECTS/ SOFTWARE (SELECTED)	<ol style="list-style-type: none"> 1. AETHER PROJECT (https://github.com/omec-project/upf) <ul style="list-style-type: none"> • 4G/5G Control User Plane Separated (CUPS) TS23501 based packet core controlled by PFCP • URL: https://opennetworking.org/aether/ 2. 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/ 3. mOS STACK (https://github.com/mos-stack/mOS-networking-stack) <ul style="list-style-type: none"> • A Specialized Network Programming Library for Stateful Middelboxes. • Pub: NSDI 2017, URL: https://tnet.snu.ac.kr/mos/ 4. PACKET BRICKS (https://github.com/zeek/packet-bricks) <ul style="list-style-type: none"> • A netmap-based packet layer for distributing and filtering traffic. 5. mTCP (https://github.com/mtcp-stack/mtcp/) <ul style="list-style-type: none"> • A Highly Scalable User-level TCP Stack for Multicore Systems. • Pub: NSDI 2014, URL: https://tnet.snu.ac.kr/mtcp/ 6. KARGUS <ul style="list-style-type: none"> • A Highly-scalable Software-based Network Intrusion Detection System. • Pub: CCS 2012, URL: https://tnet.snu.ac.kr/kargus/ 	
EDUCATION	<p>Korea Advanced Institute of Science & Technology (KAIST), Republic of Korea</p> <ul style="list-style-type: none"> • PhD, Electrical Engineering. Advisor – Prof. KyoungSoo Park <p>University of Pittsburgh, Pittsburgh, Pennsylvania, USA</p> <ul style="list-style-type: none"> • MS, Computer Science. Advisors – Prof. KyoungSoo Park & Prof. Daniel Mossé <p>Lahore University of Management Sciences, Pakistan</p> <ul style="list-style-type: none"> • BSc (Hons), Computer Science. 	
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 	
AWARDS	<p>ONF OMEC/COMAC Community Award, & Intel Division Recognition Award for Aether & OMEC</p> <p>NSDI Best Paper Award 2017 for mOS</p> <p>2nd Runner-up Samsung Humantech Paper Award 2016 for DFC</p> <p>NSDI Community Award 2014, & Runner-up Samsung Humantech Paper Award 2014 for mTCP</p> <p>“10 Achievements of 2012 that put KAIST on the Spotlight” for Kargus</p> <p>Graduate Fellowship Spring 2006, & Undergraduate Dean's Honor List 2001-03</p>	
SKILLS	C/C++, C#, Java, Python, CUDA, Lua, Javascript, HTML/XML, Linux, x86 Assembly, TILE-Gx, Intel DPDK	