

CONTACT INFORMATION	Intel Jones Farm 2 (JF2) Building, 2111 NE 25th Ave, Hillsboro, OR 97124	<i>E-mail:</i> <a href="mailto:asim.jamshed@gmail.com">asim.jamshed@gmail.com</a> <i>WWW:</i> <a href="http://ajamshed.github.io">ajamshed.github.io</a>
INTERESTS	Networked systems design & implementation, distributed systems, network security and operating systems.	
EDUCATION	<b>Korea Advanced Institute of Science &amp; Technology (KAIST)</b> , Republic of Korea <ul style="list-style-type: none"> <li>• PhD, Electrical Engineering (Spring 2017). Advisor – Prof. KyoungSoo Park</li> </ul> <b>University of Pittsburgh</b> , Pittsburgh, Pennsylvania, USA <ul style="list-style-type: none"> <li>• MS, Computer Science (Apr 2010). Advisors – Prof. KyoungSoo Park &amp; Prof. Daniel Mossé</li> </ul> <b>Lahore University of Management Sciences</b> , Pakistan <ul style="list-style-type: none"> <li>• BSc (Hons), Computer Science, (May 2005).</li> </ul>	
EMPLOYMENT EXPERIENCE (SELECTED)	<b>Intel Labs, Intel Jones Farm 2 (JF2)</b> , Hillsboro, OR <ul style="list-style-type: none"> <li>• Research Scientist, Telco Systems (May 2017-onwards). Reporting to Christian Maciocco (Principal Engineer)</li> </ul> <b>International Computer Science Institute (ICSI)</b> , Berkeley, CA <ul style="list-style-type: none"> <li>• Research Intern (May 2014-Aug 2014, Oct 2015-Dec 2015). Mentor – Dr. Robin Sommer</li> <li>• Developed Packet Bricks. See [3] in Projects section.</li> </ul> <b>Palmchip Corporation</b> , Lahore, Pakistan <ul style="list-style-type: none"> <li>• Software Engineer (May 2005-July 2006). Reporting to Ahrar Naqvi (VP Engineering)</li> <li>• Optimized bootloader &amp; filesystem performances for an system-on-chip network-attached storage device series.</li> </ul>	
PROJECTS/ SOFTWARE (SELECTED)	<ol style="list-style-type: none"> <li><b>OMEC PROJECT</b> (<a href="https://github.com/omec-project/ngic-rtc">https://github.com/omec-project/ngic-rtc</a>) <ul style="list-style-type: none"> <li>• Control User Plane Separated (CUPS) TS23501 based EPC Service &amp; Packet Gateways (SGW, PGW)</li> <li>• <i>URL:</i> <a href="https://www.opennetworking.org/omec/">https://www.opennetworking.org/omec/</a></li> </ul> </li> <li><b>mOS STACK</b> (<a href="https://github.com/ndsl-kaist/mOS-networking-stack">https://github.com/ndsl-kaist/mOS-networking-stack</a>) <ul style="list-style-type: none"> <li>• A Specialized Network Programming Library for Stateful Middleboxes.</li> <li>• <i>Pub:</i> NSDI 2017, <i>URL:</i> <a href="http://mos.kaist.edu/">http://mos.kaist.edu/</a></li> </ul> </li> <li><b>PACKET BRICKS</b> (<a href="https://github.com/bro/packet-bricks">https://github.com/bro/packet-bricks</a>) <ul style="list-style-type: none"> <li>• A netmap-based packet layer for distributing and filtering traffic.</li> </ul> </li> <li><b>mTCP</b> (<a href="https://github.com/eunyoung14/mtcp/">https://github.com/eunyoung14/mtcp/</a>) <ul style="list-style-type: none"> <li>• A Highly Scalable User-level TCP Stack for Multicore Systems.</li> <li>• <i>Pub:</i> NSDI 2014, <i>URL:</i> <a href="http://shader.kaist.edu/mtcp/">http://shader.kaist.edu/mtcp/</a></li> </ul> </li> <li><b>KARGUS</b> <ul style="list-style-type: none"> <li>• A Highly-scalable Software-based Network Intrusion Detection System.</li> <li>• <i>Pub:</i> CCS 2012, <i>URL:</i> <a href="http://shader.kaist.edu/kargus/">http://shader.kaist.edu/kargus/</a></li> </ul> </li> </ol>	
PUBLICATIONS (SELECTED)	<ol style="list-style-type: none"> <li>[1] “AccelTCP: Accelerating Network Applications with Stateful TCP Offloading.” NSDI ’20</li> <li>[2] “Reducing Tail Latency via Safe and Simple Duplication.” CoNEXT ’19</li> <li>[3] “mOS: A Reusable Networking Stack for Flow Monitoring Middleboxes.” NSDI ’17 - <b>Best Paper Award</b></li> <li>[4] “APUNet: Revitalizing GPU as Packet Processing Accelerator.” NSDI ’17</li> <li>[5] “DFC: Accelerating String Pattern Matching for Network Applications.” NSDI ’16</li> <li>[6] “Haetae: Scaling the Performance of Network Intrusion Detection with Many-core Processors.” RAID ’15</li> <li>[7] “mTCP: a Highly Scalable User-level TCP Stack for Multicore Systems.” NSDI ’14 - <b>Community Award</b></li> <li>[8] “Kargus: a Highly-scalable Software-based Intrusion Detection System.” CCS ’12</li> <li>[9] “Suppressing Bot Traffic with Accurate Human Attestations.” ApSys ’10</li> <li>[10] “Sentinel: Hardware-Accelerated Mitigation of Bot-Based DDoS Attacks.” ICCCN ’08</li> </ol>	
AWARDS	Intel Division Recognition Award for OMEC NSDI Best Paper Award 2017 for mOS 2 <sup>nd</sup> 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	