

# BHUSHAN PRADIP JAIN

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<b>Education</b>	<b>Ph.D. in Computer Science - System Security</b> <b>Aug 2022</b> University of North Carolina at Chapel Hill, Chapel Hill, NC <b>Thesis Title :</b> Economically Protecting Complex, Legacy Operating Systems Using Secure Design Principles <b>Research Interests :</b> Virtualization, Cloud, and System Security, Security Metrics <b>Areas of Expertise :</b> Linux Kernel, Container, VM, Hypervisor, Data Analysis
	<b>Master of Science (M.S.) in Computer Science</b> <b>May 2016</b> Stony Brook University, Stony Brook, NY <b>GPA: 3.96</b>
	<b>Bachelor of Technology (B.Tech.) in Computer Science</b> <b>May 2009</b> College of Engineering, Pune, India <b>GPA: 3.46</b>
<b>Industry Experience</b>	<b>Research Intern, IBM TJ Watson Research Center</b> <b>Jan 2014 - March 2016</b> <b>July 2013 - Sep 2013</b> Leverage hardware support to remove hypervisor and guest OS from the TCB of an application running in a VM on POWER architecture (IBM's version of Intel SGX)
	<b>Research Intern, IBM Almaden Research Center</b> <b>May 2012 - Aug 2012</b> Invented optimizations for Block-level Deduplication in Primary Storage
	<b>Software Developer, IBM India Software Lab</b> <b>Jul 2009 - Jul 2011</b> Development and test automation of IBM Scaled Out Network Attached Storage (SONAS) <ul style="list-style-type: none"><li>• Design scenarios to integrate and certify <i>VMware Infrastructure</i> and <i>Symantec Antivirus</i> with SONAS and author White Papers indicating the best practices</li><li>• Design, Development and Test Automation of <i>NDMP</i> (Network Data Management Protocol) component for SONAS to support NDMP based backup of data</li><li>• Development of <i>Wan-caching</i> feature for SONAS</li></ul>
<b>Publications</b>	<ul style="list-style-type: none"><li>• <b>13 research papers</b> published at top conferences in the fields of system security, Linux kernel security, SGX, and virtualization security</li><li>• <b>21 US Patents</b> granted in the fields of storage, cloud, and security (IBM owned)</li><li>• <b>13 publications</b> in Prior Art Database</li></ul>
<b>Technical Skills</b>	<b>Languages:</b> C, JAVA, Python, SQL, Shell Scripting <b>Platforms:</b> Linux, x86, POWER <b>Tools:</b> QEMU, gdb, git
<b>Professional Achievements</b>	<ul style="list-style-type: none"><li>• <b>Best Paper Award</b> at EuroSys 2016</li><li>• <b>IBM PhD Fellowship</b> for academic years 2014-2015 and 2015-2016</li><li>• <b>Computer Science Departmental Fellowship</b> at Stony Brook University</li><li>• <b>IBM 1st - 5th Plateau Awards</b> for invention and creative contributions</li><li>• <b>IBM Rookie of the Year Award</b> in 2009 for the best performer in IBM India</li><li>• 1st Runner Up Award for <b>Data Security and Privacy Project with Significant Business Impact</b> in IBM India</li></ul>