## ATUL TALESARA princeatul @ gmail . com

	princeatul @ gmail . com	
Objective	To excel as an eminent programmer with expertise in the areas of Storage and	l Operating Systems
EDUCATION	M.S. in Computer Engineering (ECE) Carnegie Mellon University, Pittsburgh, PA, USA	Expected Dec 2008
	Bachelor of Engineering, Computers Pune Institute of Computer Technology (PICT), Pune University, India	June 2002
Skills & Major Interests	<ul> <li>Operating Systems (kernel internals) Storage &amp; Filesystems</li> <li>Security (Intrusion Detection/Prevention Systems(IDS/IPS), Traffic anomaly)</li> <li>Networking (TCP/IP)</li> <li>System Programming (GDB internals &amp; stub, GNU tool chain: assembler, linker, binutils)</li> </ul>	
Languages	C, Perl, Shell programming, Java, Assembly programming (x86 & MIPS)	
Courses	Computer Systems, Operating System Design and Implementation, Advanced Storage Systems, Packet Switching, Computer Networks and Computer Security	
Research	Replay Filesystem Traces on Parallel FS, using Virtual Machines       Aug 2008 - Present         • Guide: Prof. Garth Gibson (co-founder & CTO Panasas) at CMU Parallel Data Lab	
Experience	Google Inc., Mountain View, CA	May - August 2008
	Software Engineer, Intern	
	• Devised a complete plug-in framework for database consistency check	-
	Nevis Networks, India Pvt. Ltd., Pune Software Engineer	Jan 2004 – July 2007
	<ul> <li>Engineered GDB stub for remote debugging on Nevis' multithreaded Network Processor (Supernova)</li> <li>Devised troubleshooting and tracing infrastructure for multi-threaded program</li> </ul>	
	<ul> <li>Validated IPS/L2 Attacks prevention feature in the Nevis Product</li> </ul>	
	<ul> <li>Tweaked GNU tool chain (gcc, gas, ld, binutils), devised makefiles &amp; linker scripts</li> </ul>	
	Developed & enhanced in-house tools to generate IPS attacks	1
	Maintained & tweaked the Nevis boot code & implemented POST	
	IBM, India Software Labs (ISL), Pune Validation Engineer for IBM's LDAP Suite	Feb 2003 – Jan 2004
	Validated IBM's LDAP Client-Server Suite, IBM Tivoli Directory Server Server UNIX (flavors of Linux, AIX, Solaris, HP-UX)	ver (ITDS) on a variety
	<ul> <li>Constructed complex real-world test scenarios in PERL</li> <li>Conceptualized &amp; implemented advanced testing framework allowin process and logs, using STAF, PERL and C</li> </ul>	ng remote control over
	Kuokoa Networks, India Pvt. Ltd.	Jun 2002 – Dec 2002
	Software Engineer	ont Gustom (VDMC)
	<ul> <li>Built filesystem Consistency Check Utility for Kuokoa Data Managem</li> <li>Developed Data Re-layout from legacy storage servers on to KDMS</li> </ul>	(KDMS)
Projects & Honors	• Complete Operating System: Designed and Implemented a complet preemptive multi-tasking kernel featuring multi-threaded program virtual memory, interrupt handling and concurrency control	
HONOKS	• Designed and Implemented complete <b>Thread Library: Thread life cycle</b> <b>management and synchronization primitives</b> , viz. Mutexes, Condition Variables, Semaphores and Readers-Writers Lock	
	<ul> <li>Designed and developed a full-fledged <i>e2fsck</i> (filesystem consisten Ext2 filesystem, <i>malloc</i> library, etc.</li> </ul>	cy check program) for
	<ul> <li>HaRmOnY: A Mixed Media System on Linux, award winnin year project. Multimedia capable EXT2 file system and an efficie scheme over the network. Winners of the Kuokoa Trophy Systems/Networking"</li> </ul>	ent Real Time delivery
OTHER ACTIVITIES	<ul> <li>Black belt in Karate, "Star of the Institution" award at karate instituti</li> <li>Photography, Reading, Trekking, Outdoor sports, esp. Soccer and Vol</li> </ul>	