




Mihir Shete

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EDUCATION	University of Wisconsin-Madison MS in Computer Science Coursework: Advanced Operating Systems, Introduction to Computer Networks, Distributed Systems, Big Data Systems, Machine Learning. Birla Institute of Technology and Science - Pilani, Goa Campus B.E.(Hons.) in Electronics And Instrumentation Concentrated on projects and internships in the areas of Embedded systems' design and development.	Aug 2015 – Present Aug 2006 – May 2010
EXPERIENCE	ZeroStack Member of Technical Staff, Intern <ul style="list-style-type: none">Built a highly available DNS as a Service.Evaluated OpenStack Cinder's Image-Volume cache for speeding up volume creation.Developed a framework to run ZeroStack environment on OpenStack to test scalability of the solution. Qualcomm Senior Software Engineer <ul style="list-style-type: none">Maintainer of 802.11 driver's data path and the DMA driver for Linux.Worked on optimizing the data path and the Linux scheduler for Heterogenous Multiprocessors.Wrote scripts to analyze data path performance, power consumption and CPU loads.Contributed in the development process of a data offload engine between 802.11 and LTE processors. TeamF1 Networks Software Engineer <ul style="list-style-type: none">Design and Development of Linux device drivers for 802.11 Wireless SoCs in Enterprise Routers.Involved in development of a 802.11r solution independent of the available open source alternatives.	Mountain View, CA May 2016 – Aug 2016 Hyderabad, India Jul 2012 – Jul 2015 Hyderabad, India May 2010 – Jun 2012
ACADEMIC PROJECTS & RESEARCH	Make Copy-on-Write Great Again University of Wisconsin-Madison Prof. Mike Swift We are working on rethinking copy-on-write mechanisms and policies to reduce overhead of handling copy-on-write faults on large pages. These generic techniques can also be applied in the areas of File Systems where copy-on-write mechanisms are used for creating snapshots. We showcased our work in <i>Redis Conference 2016</i> held in San Fransisco. Geo-Distributed Machine Learning University of Wisconsin-Madison Prof. Aditya Akella Multinational organizations have data spread across geographically distributed datacenters. Running traditional machine learning algorithms on the geo-distributed data can be costly in terms of time required for convergence and money spent to transfer data to a centralized datacenter. We are looking into a hierarchical parameter server based model to address these issues. Stressing The HDFS Maintenance System University of Wisconsin-Madison Prof. Remzi Arpaci-Dusseau Developed a framework to run Hadoop in containers so that we can test large scale HDFS cluster on limited hardware resources. We then used this framework to stress the HDFS maintenance system and devised a simple formula to predict the probability of data loss depending on the rate of node failures. We also proposed alternative mechanisms and policies to prevent the maintenance system from hampering the normal day-to-day Hadoop operations.	Jan 2016 – Till Date Sep 2016 – Till Date Sep 2016 – Dec 2016
OPEN SOURCE	MSM Linux Kernel: Subsystem-Restart feature development and wireless regulatory framework maintenance Prima Driver: Added code to support new DMA hardware and worked on data path maintenance HTCondor: Contributing on developing an improved unit-test framework in perl and C	
TECHNICAL SKILLS	Programming: C, Go, Python, C++, Perl, Lua, Shell Scripting, Javascript, Latex, Matlab, Java Tools: Vim, Gdb, SystemTap, Eclipse, Android Development Studio	