Mihir Shete

Department of Computer Sciences
University of Wisconsin-Madison
Madison, WI 53706

+1-608-960-5708
smihir@cs.wisc.edu
homepage

EDUCATION

University of Wisconsin-Madison Aug 2015 – Present
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 Aug 2006 – May 2010
B.E.(Hons.) in Electronics And Instrumentation
Concentrated on projects and internships in the areas of Embedded systems' design and development.

EXPERIENCE

ZeroStack Mountain View, CA
Member of Technical Staff, Intern May 2016 – Aug 2016

- 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 Hyderabad, India
Senior Software Engineer Jul 2012 – Jul 2015

- 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 Hyderabad, India
Software Engineer May 2010 – Jun 2012

- 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.
- Implemented the RSTP functionality for AccessPoints.
- Worked on securing the WiFi Alliances 802.11 ncertification for interoperability.

ACADEMIC PROJECTS & RESEARCH

Migrating Latency Issues with Transparent Huge Pages
University of Wisconsin-Madison Jan 2016 – Till Date
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 *Redis Conference 2016* held in San Fransisco.

Smart Shoes in Healthcare Management
University of Wisconsin-Madison Sep 2015 – 2015
Internet of Things Lab.
Our vision is to develop a device which can be used in healthcare to do a continuous gait analysis. This can be useful for ensuring quick and successful recovery of patients undergoing hip and knee surgeries. Other uses include tracking effects of physical therapy on patients suffering for nervous disorders like Parkinson's Disease. This project won the *Most Innovative Technology Award* in IOT Openhouse - 2015 held in UW Madison.

Design and Verification of Safety Critical Systems
BITS-Pilani, Goa Campus Jan 2010 – Apr 2010
Dr. K.R Anupama
A survey of the established standards for designing safety critical systems.

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