Mihir Shete

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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 May 2016 – Aug 2016

Member of Technical Staff, Intern

- 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 Jul 2012 - Jul 2015

- Senior Software Engineer
 - 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 May 2010 - Jun 2012

- Software Engineer
 - 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-onwrite 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