

EDUCATION

Buffalo, NY	SUNY University at Buffalo	Aug 2015 – Dec 2016
M.S. in Computer Science. CGPA: 3.68/4 Graduate Coursework: Algorithms, Information Retrieval, Computer Security, Machine Learning, Large-scale Distributed Systems, Modern Networking Concepts, Data Intensive Computing.		
Bangalore, India	PES Institute of Technology	Aug 2008 – July 2012
B.E. in Computer Science. CGPA: 8.21/10		

EMPLOYMENT

Intern	VMware, Palo Alto	Summer 2016
Developed a light-weight data collection platform with vRealize Operations Manager for Multi-Cloud monitoring using Fluentd, Metricbeat and Logstash, and repackaging Remote Collector using Capsule . Wrote configuration and orchestration micro-services using Xenon . Developed an API proxy with load-balancing features for the collection platform using Spring Boot.		
Member of Technical Staff	Oracle India Pvt. Ltd (IDC)	Dec 2014 to July 2015
Involved in the development of the UI modules for administration and self-service for Oracle Mobile Security Suite which is part of Oracle Identity Management. The challenge was to use ADF and build UI modules in an MVC format, to ensure loose coupling with REST backend and modularity.		
Software Engineer	Samsung R&D India – Bangalore (SRI-B)	May 2013 to Nov 2014
Involved in the development of Android camera stack for Samsung Galaxy range of phones. Samsung spot award: for my contribution towards implementing burst write feature for better camera performance.		
R&D Engineer	Airvana Networks India Pvt Ltd	Aug 2012 to Apr 2013
Involved in the development of Femtocell Service Manager, a TR-069 protocol based Auto Configuration Server for Femtocell provisioning and monitoring. Improved Femtocell simulator performance by memory optimizations, migrating to JAXB from Castor, optimum thread pool size. Etc.		

NOTABLE ACADEMIC PROJECTS

Simple Dynamo DB – Implemented a key-value store based on Dynamo DB paper with Quorum replication, eventual consistency and high availability. TCP sockets, Java, Linux, Android.

Chord DHT – Implementation of Chord - Distributed Hash Table algorithm. TCP Sockets, Java, Linux, Android.

Distributed message ordering and delivery – A distributed system consisting of Android nodes with guaranteed FIFO and total ordering of messages in all the instances using ISIS algorithm with node failure handling. TCP Sockets, Java, Android.

Transport Layer protocol – Implemented three transport layer protocols Alternating Bit Protocol, Go Back N and Selective Repeat in a simulated environment and evaluated them. C, Linux.

Chat and file server – chat application using TCP sockets with various control commands for communication between client and the server. C, Sockets, Linux.

Class room scheduling - Using map-reduce (Hadoop) to analyze classroom usage of UB from 1910 till date.

Social curry – building, evaluation and tuning of multilingual search system with search models in information retrieval., using Tweets as the data. Java, Solr, Twitter REST API.

LANGUAGES AND TECHNOLOGIES

Java, C, REST, XML, SQL, HTML, Javascript, Python, Solr, Lucene, Xenon.
Eclipse, Hadoop, J2EE, Spring MVC, Ant, Jacoco, Junit, JAXB, Linux, Git, Hudson, Jira, Android, Windows.