

Education

University of Wisconsin-Madison, Madison, WI, United States

Expected Dec 2016

Masters in Computer Science, with current GPA 3.69/4.00

- *Courses:* Advanced Operating Systems, Big Data Systems, Distributed Systems, Machine Learning, Advanced Topics in Data Science, Introduction to Computer Networks, Virtual Reality, Master's Research

R. V. College of Engineering, Bangalore, India

Graduated Jun 2013

Bachelor of Engineering in Computer Science with GPA 9.54 out of 10

Professional Experience

Nutanix, San Jose, CA

May 2016 – Aug 2016

Member Technical Staff - Intern, Acropolis Hypervisor Team

- Worked on a project using docker container technology and libguestfs tools, which will be incorporated into the future releases of Acropolis.
- Composed the Invention Disclosure Form and filed the patent application for the above work which is under review process.

VMware, Bangalore, India

Jun 2013 – Aug 2015

Member Technical Staff II, VMware ESX Storage Team, Research and Development Team

- Implemented scripts to scan, detect and report data corruption of a virtual machine's snapshot delta disks and their metadata.
- Incorporated architectural changes in disk and object libraries across versions of ESX, virtual SAN (vSAN) and virtual volumes (vVols).
- As the Scrum Master and Triage Lead, tracked team activity and assigned tasks to team members after analyzing feature requests and complex storage stack issues raised by customers and partners.

Ittiam Systems, Bangalore, India

Jan 2013 – May 2013

Software Development Intern, Media Labs

- Designed and implemented Customer Subscription and Billing Modules for "[farmOTT](#)", Cloud Based Video Transcode Service.

Research Experience

University of Wisconsin-Madison, WI, United States

Aug 2015 – May 2016

Graduate Research Assistant under the guidance of Professor [Barton P. Miller](#) in the Department of Computer Sciences

- Designed plugins for Eclipse/IntelliJ to support [SWAMP](#) functionalities that facilitated testing code for security vulnerabilities across various development environments. Java, Curl APIs.
- Automated the infrastructure (virtual machine creations, OS image customization and packaging of tools). OZ tool, RPMbuild, Linux

Indian Institute of Sciences, Bangalore, KA, India

Jun 2012 – Aug 2012

Software Research Intern under the guidance of [Dr. A. G. Ramakrishnan](#) in the Medical Intelligence and Language Engineering Lab

- **Indic Keyboards:** Designed front end and implemented basic text rendering for Indic scripts. [Mile Indic Keyboards](#). [Repo for Source Code](#). Android, Java, SVN.

Select Projects

- **Design and Implemented NFS-Like Distributed File System:** Integrated into Linux client side using FUSE.
- **Page Ranking, Structured Streaming and Twitter Stream processing using Spark and Apache Storm**
- **Benchmarking of Data Analytics Stacks - MapReduce and Tez:** Ran SQL query "jobs" atop Apache Hive in a Hadoop Cluster on Azure VMs.
- **Jua: Customer Facing System to Improve User Experience in Public Clouds:** Implemented a number of VM placement gaming strategies.
- **Predict Cricket Match outcome:** Designed a machine learning based prediction system by learning features sets from CricInfo. Scikit-learn
- **MATRIX:** Implemented the data science pipeline of matching, analysis, text retrieval, and information extraction, on large data sets.
- **Cloud-O-Media:** Designed an application to share multimedia files and stream video over the cloud. Java RMI, AWS, S3, Microsoft DivX.
- **Online Test System:** Implemented an end-to-end framework to conduct online examination and reporting system. C#, ASP.NET, MySQL.

Select Publications

- **Performance Analysis during Live Migration.** International Journal of Engineering Research Technology (IJERT), 22nd April, 2013.
- **Performance Analysis of Goldwasser-Micali Cryptosystem.** International Journal of Advanced Research in Computer and Communication Engineering (IJARCC), July 2013.

Technical Skills

- **Languages:** Java, Python, C, C++, MySQL, HTML, CSS, PERL, PHP, R, REST APIs
- **Tools and Frameworks:** GDB, GIT, Perforce, SVN, RPMBuild, OZ, libguestfs, Amazon Web Services (AWS), Latex, Google RPC, Apache Thrift,

Notable Mention

- **Awards:** 6th Rank with CGPA 9.54/10.00 in a batch of 150 at RVCE, Best Outgoing Student in 12th grade. Winner in C/C++ Programming Contest at 26th Computer Society of India Convention, National Level 2nd Place in the ALOHA Mental Arithmetic Competition, Guinness World Record Holder for coding at Windows AppFest, World's longest 48hr coding marathon.
- **Volunteer:** 1000\$ Award from VMWare, in recognition of my philanthropic engagement with Step-Up for India as a volunteer teacher, Cultural Head – Indian Graduate Student Association, Mentoring Chair – ACM's Women in Computing
- **Certifications:** IBM Certified Academic Associate - DB2 9 Database and Application Fundamentals.