


# Shyamsunder Rathi

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## Summary

Ten years of experience in software design, development and leadership for large scale distributed systems.

## Experience

### **Sr. Manager, Engineering**

Nutanix

Feb 2020 - Present (3 months +)

- Currently leading the infrastructure team for the "Files" (a dynamically scalable distributed file-server) product.
- Responsible for design, development, planning and execution for various infrastructure projects for the product.

### **Staff Engineer**

Nutanix

Aug 2019 - Jan 2020 (6 months)

Responsible for designing and developing multiple features for the "Files" (a dynamically scalable distributed file-server) product.

### **Sr. Member of Technical Staff**

Nutanix

Dec 2014 - Jul 2019 (4 years 8 months)

- Working on Acropolis File Services, a scale-out distributed file-server.
- Worked on the product from inception to the first GA release.
- Implemented a caching layer for the metadata database resulting in more than 100% improvement in client latency during VDI login process.



### **Sr. Software Engineer**

Brocade

Jul 2009 - Nov 2014 (5 years 5 months)

Brocade Stackable Products

- Implemented various stacking related features FCX and ICX family of stackable products.
- Designed and developed Link-Aggregation feature for stacking-ports to support up to 160G bandwidth for stacking-links.
- Worked on various stacking related operations, e.g. unit discovery, interactive stacking setup, stack formation, unit replacement, ID assignment, etc.

High Availability

- Implemented High availability (HA) features to ensure uninterrupted system operation in the event of firmware upgrade or software failure.
- Designed and developed software-data synchronization between two CPUs on a chassis system.
- Designed and developed HA support for Policy Based Routing (PBR).

Security Features

- Worked on security related features, e.g. Access Control List (ACL), 802.1x, MAC-authentication, Policy Based Routing (PBR), etc.
- Developed HA support for Mac-authentication and 802.1x authentication, so that authenticated clients can have uninterrupted traffic flow in the event of firmware upgrade or software failure.



### **Member and software developer**

Teamcore Research Group, USC

Jun 2008 - Jun 2009 (1 year 1 month)

- Contributed to various research projects, under the guidance of Prof. Milind Tambe (<http://teamcore.usc.edu/tambe>).

- developed ARMOR (Assistant for Randomized Monitoring Over Routes), a scheduling system for canine patrolling units, deployed at the Los Angeles International Airport (LAX) since 2008.

- designed and developed IRIS (Intelligent Randomization In Scheduling), a software program for allocating Federal Air Marshals (FAM) in international passenger flights since 2009.

Details: <http://teamcore.usc.edu/projects/security/>



### **Software Engineer**

Tata Consultancy Services

2006 - 2007 (2 years)

## **Education**



### **University of Southern California**

Master of Science, Computer Science

2007 - 2009

GPA: 3.8



### **National Institute of Technology Surat**

Bachelor of Engineering (B.E.), Electrical and Electronics Engineering

2002 - 2006