

## SUMMARY

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A technology enthusiast with 12+ years of experience in Cloud and Distributed Computing, Scalable systems, L3/L4 Networking, Operating Systems, Memory management, and File systems.

## TECHNICAL SKILLS

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• **Languages:** Go, C, Scheme **Technologies:** Linux, TCP/IP, Docker, Electron

## EXPERIENCE

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- **Ionos Networks Inc./IPCore Solutions Pvt. Ltd** **Bengaluru, KA**  
*Cloud Dataplane Lead/Architect* *Nov 2014 - Present*
  - **Quantum File Transfer(QFX):** QFX is a file sync solution that can operate at Gigabit speeds over intercontinental distances. The software is built to scale to 10 million files and 10 terabytes of data. I was responsible for architecture of the dataplane and led a small team of engineers to develop software for
    - \* Secure file/directory sync
    - \* Dynamic path detection and healing
    - \* High speed data transport engine over TCP/IP
    - \* End to end congestion control
    - \* Network resource allocation and management
    - \* Fault tolerance and resiliency
    - \* Multicast file transfer
    - \* Client apps on MacOS and Linux
- **CSR India Pvt. Ltd** **Bengaluru, KA**  
*Senior Software Engineer* *Jan 2013 - Nov 2014*
  - **CSR's Synergy Wi-Fi Software Stack – A Wi-Fi Soft-Mac solution:**
    - \* 802.11ac Wi-Fi driver using mac802.11 Linux stack over PCIe
    - \* Requirement analysis, design and development of Wi-Fi features like scanning, 802.11d and 802.11h
    - \* Various bug fixes related 802.11 MAC in software Stack
- **Sandvine India Pvt. Ltd.** **Bengaluru, KA**  
*Sr. Engineer* *May 2012 - Dec 2012*
  - **Sandvine's Signaling Controller - A PCRF cum diameter switch:**
    - \* Modification and Enhancement of Linux Virtual Server (LVS) module to support SNAT and DNAT traffic.
- **Brocade Communications India Pvt. Ltd.** **Bengaluru, KA**  
*Software Engineer II* *Apr 2011 - May 2012*
  - **Brocade's Project Mercury – Brocade's first chassis based Ethernet Switch:**
    - \* Developed a dynamic Kernel Module Tracing Infrastructure to profile various kernel calls.
    - \* Developed a process sandboxing framework to protect system against malicious programs.
- **Mindtree Ltd.** **Bengaluru, KA**  
*Module Lead/Sr. Engineer/Engineer* *Jul 2007 - Apr 2011*
  - **Embedded Software Practice:**
    - \* Design and Development of SIP based 2-way Video Conferencing feature on Android
    - \* DRTL – Implementation of a deadline aware scheduler, Deadline aware locking, and deadline ware interrupt handling in the linux kernel
    - \* Remotification of WiFi driver companion application and driver enhancements for a series of Wi-Fi chipsets
    - \* Development of Linux device drivers for Touch screen controllers on Atmel AT91SAM9261/AT91RM9200 platform. (I2C, SPI, GPIO)

## EDUCATION

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- **Birla Institute of Technology and Science** Pilani, India  
*Master of Technology in Software Systems; CGPA: 8.10* *Jul. 2017 – Jul. 2019*
- **Bengal Engineering and Science University, Shibpur (now IEST, Shibpur)** Howrah, India  
*Bachelor of Engineering in information Technology; 81.2%* *Aug. 2003 – July. 2007*
- **Holy Mission High School** Samastipur, Bihar  
*CBSE - AISSE(XII); 84%* *2001*
- **Central Public School** Samastipur, Bihar  
*CBSE - AISSE(X); 85%* *1999*

## PUBLICATIONS AND PRESENTATIONS

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- “**Deployment Specific Real Time Linux**” on 23rd Sep, 2009 at the 1st LinuxCon in Portland, OR, USA
- “**An Efficient Technique for Enhancing Forensic Capabilities of Ext2 file system**” at the 7th Annual Digital Forensic Research Workshop in Pittsburgh, PA, USA.

## ACHIEVEMENTS/REWARDS

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1. Outstanding performer of the year 2008-09
2. Half-yearly award 2008
3. Team Spot award – Dec 2007
4. Topper in campus learning program conducted by MindTree Ltd
5. School Topper in AISSE-2001
6. Awarded National Scholarship for getting All India Highest in Science in AISSE 1999