

## SUMMARY

Linux programmer with 14+ years of experience in Networking, OS, Cloud and Distributed systems

## TECHNICAL SKILLS

- Languages: Go, C

**Technologies:** Linux, TCP/IP, Docker, DPDK, OVS, Electron

## EXPERIENCE

- Nuage Networks From Nokia

Bengaluru, KA

*Senior Technical Specialist*

Jan 2020 - Present

- **Nuage VNS:** Nuage Networks Virtualized Network Services (VNS) delivers SD-WAN 2.0 functionality that allows seamless connection across branch offices and data centers. I am part of the data-plane team and am instrumental in developing features/applications like
  - \* Forward Error Correction
  - \* Seamless forwarding of Non-Ethernet frames over overlay networks
  - \* Containerization of Nuage Services Gateway(CPE) to run on public clouds
  - \* Encapsulating non-Ethernet frames so that they are passed over the overlay networks
  - \* Exploring new technologies like XDP/VPP to replace OVS-DPDK

● **Ionos Networks Inc./IPCore Solutions Pvt. Ltd**

Bengaluru, KA

### Cloud Dataplane Lead

Nov 2014 - Dec 2019

- **Quantum File Transfer(QFX):** QFX is a file/directory sync solution that can operate at Gigabit speeds over intercontinental distances. The software is built to scale to tens of million files and tens of terabytes of data. I was responsible for architecture of the data-plane and led a small team of engineers to develop software for
  - \* Multicast secure file/directory sync using high speed data transport over TCP/IP
  - \* Dynamic path detection, healing and Congestion Control
  - \* Network resource allocation, management, fault tolerance and resiliency
  - \* Client apps on MacOS and Linux to replace CPEs
  - \* Develop up a docker based upgrade mechanism to upgrade CPEs

- CSR India Pvt. Ltd/Qualcomm India Pvt. Ltd.

Bengaluru, KA

Senior Software Engineer

Jan 2013 - Nov 2014

- **Synergy WiFi Stack:** I was responsible for requirements analysis, design and development for mac802.11 based driver for an 802.11AC chip

- Sandvine India Pvt. Ltd.

Bengaluru, KA

*Sr. Engineer*

May 2012 - Dec 2012

- **Sandvine's Signaling Controller:** 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:** Developed a dynamic Kernel Module Tracing Infrastructure to profile various kernel calls.

- 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 aware 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** Bengaluru, KA  
*Master of Technology in Software Systems(Work Integrated Learning Program); CGPA: 8.10* Jul. 2017 – Jul. 2019
- **Bengal Engineering and Science University, Shibpur (now IEST, Shibpur)** Howrah, West Bengal  
*Bachelor of Engineering in Information Technology; 81.2%* Aug. 2003 – July. 2007
- **Holy Mission High School** Samastipur, Bihar  
*CBSE - AISSCE(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. Topper in campus learning program conducted by MindTree Ltd
4. School Topper in AISSCE-2001
5. Awarded National Scholarship for getting All India Highest in Science in AISSE 1999