

Shubhro Sinha

Software Engineer

Total Experience: 12+ years

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EXPERIENCE

- **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)

TECHNICAL SKILLS

● **Languages:** Go, C, Scheme

Technologies: Linux, TCP/IP, Docker, Electron

TECHNICAL INTERESTS

● Operating Systems, Networking, Distributed Computing, Cloud Computing, Functional Programming

EDUCATION

- **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

- “**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

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 AISSCE-2001
6. Awarded National Scholarship for getting All India Highest in Science in AISSE 1999