Kanishka Keshav

Software Engineer

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Summary:

Systems-minded engineer with a deep interest in building and optimizing core infrastructure having experience in System Programming, Storage, Networking, Databases, and Distributed Systems. I'm looking for opportunities where I can work on high-impact, low-level technologies that drive reliability, performance, and scalability at scale.

SKILLS

Languages :
- C   : ★★★★☆
- C++   : ★☆☆☆☆
- Python : ★★☆☆☆
- Data Structures, Algorithm
- Linux Systems, MultiThreads, IPC,
- Storage, Storage Virtualization, Filesystems, Clustering.
- Networking, TCP/IP, UDP, ICMP, RDMA(iWarp, ROCE), openFlow
- Database Development, Transaction Manager, Resource Manager
- Backend development
- Individual Contributor, Debugging, Code Review, Design Reviews,
- Scrum, Scrum Lead, release coordinator, communications.

EXPERIENCE

SAP Labs India Pvt Ltd, Pune   *Senior Software Engineer,*

From Dec 2019

Responsibilities :

In the ASE database team I am working as an individual contributor and component owner for the DBACCESS team.

I am responsible for triaging, planning and reviewing new features, bugs(fixes), customer issues and escalations, while keeping the team members motivated and bringing new learning opprotunities for everyone.

I have created multiple tools to automate repeated works and done tooling for using development and debugging tools more efficiently to reduce the time taken for root cause analysis.

Learnings -

Team Leading, Team Management and Database development concepts such as

Page Management (OAM, GAM, AP), **Space Management** (shrink, extend), **Scans** (Table Scans, Cursors, Isolation Levels), **Disk Management** (Disk Initialization, Disk Mirrors, Shrink, extend), **Data Reorganization Capability** (Rebuild, Defrag, Compact), **Partition Management** etc.

IBM Labs India Pvt Ltd, Pune   *Senior Software Engineer,*

Nov 2015 - Dec 2019

Responsibilities :

I was part of the IBM's SVC's (Storage Virtualisation Controller's) ethernet transport team. As an individual contributor and a lead I designed and developed various features. I also ideated some features and led a team to develop it.

- **Hot Spare Node** enhancement and adding ethernet/RDMA support
- **Fast IP failover and failback** in a clustered environment
- **Ethernet port scalability and grouping** on SVC
- **VPD management** infrastructure for new IBM SVC and storewise products.
- **Memory manager** for RDMA ports
- **Qualifying RDMA adapters** for SVC/Storewise

Learnings :

iSCSI, TCP/IP, UDP, RDMA(iWarp, RoCE), ICMP, Linux Systems, Linux kernel, Clustering concepts, multithreading, IPC and user-kernel communications.

GS LAB, Pune   *Software Engineer,*
Feb 2015 - Nov 2015

Responsibilities :

I was responsible for end-to-end development of an agent that would reside on routers, switches and wi-fi routers to provide capability to manage them from the cloud management interface.
- Requirement gathering from customer and design and implementation of features such as network sweep to identify and then elect a leader device in a subnet.
- Led a team to develop an agent which established a connection with Cloud Manager and provided an internal interface to apply/report router configurations.

Learnings :

TCP/IP, UDP, SNMP, TLS support, Linux Systems, Linux kernel, Multithreading, IPC.

Calsoft, Pune   *Software Engineer,*
May 2013 - Feb 2015

Responsibilities :

I worked on error injection tools for iSCSI target testing and also worked on NFS ganesha features.

I was the first member involved in building competency in the networking domain. I ideated designed and worked on various POCs, performance evaluation tools using openFlow version 1.1 to 1.3

Learnings :

iSCSI, TCP/IP, UDP, openFlow, Multithreading, IPC, Network Programming, Filesystems.

Wipro Technologies, Pune   *Software associate,*
Oct 2010 - Apr 2013

I was responsible for maintenance of a banking system and fixing bugs.
Was also responsible for cost and resource planning for the project as a business analyst.

EDUCATION
SJCE, Mysore   *Bachelor of Engineering*   July 2006 - May 2010

AWARDS Recognitions

Patent :

Updating host discovery records based on target reconfiguration
US11119951B2 · Issued Nov 6, 2019
https://patents.google.com/patent/US11119951B2/en

Recognized for efforts to keep my team motivated through ups and downs.
Recognized for delivering a feature that had Zero Bug Tolerance - VPD Management.
Recognized for ideating and delivering a feature - Host Port Grouping.