**Sushil S. Hiremath**

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Offer 8.6 years' experience. Creative and solution-oriented software professional with extensive experience in the software product life cycle in the storage, virtualization, distributed systems, and associated technologies with a MS degree from the UK.

**Professional Summary**

* **Software Developer**: C, Data structures & algorithms, Linux kernel, Multi-threading, IO path/stack, Multipathing, Hypervisor, Virtualization, ESXi/VMware, Storage and distributed systems.
* Work Involvement in Requirement Analysis -> Architecture -> Design -> Implementation -> Testing ->release.
* Good experience in system internals and IO sub systems. Familiarity in virtualization, distributed systems and high available systems.
* Worked in scrum, agile, waterfall model
* Working on Customer report issues: RCA->fix->releasing patch (if required).
* Working on CI/CD pipeline development. Co-ordinates with QA and management for smooth conduct of product cycle.

**Skills (IT)**

**Tech Skills:**

IO Multipathing, PSA, Crash/Core dump analysis, Apache Mina, PostgreSQL, NoSQL/Key-value DB.

**Tools:**

GIT, Clear Case, SVN, Jira, Coverity, vCentre, Hyper-V, Workbench (CIMPAT), Review board, GDB, WinDbg.

**Hardware matrix:**

Worked on EMC arrays like Symmetrix, Unity, SC, Clariion, and Toshiba Cluster-perfect HA products.

**Research and Planning:**

POC, requirement analysis, information gathering, Development estimations and driving the project.

## Experience

* ***Senior Software Engineer***

**•DellEMC Corporation, Bangalore.** 06/2017–10/2020

Product : PowerPath: A leading I/O Multipathing software in market.

*Roles & responsibilities*:

* Design proposal and taking approval from senior technical peers in team.
* Individual contributor in building deliverables, communicating effectively with QA and technical requirements team.
* Demonstrating work progress to team and communicating the status to manager.
* Assisting documentation team and part of review process of release guide.
* Providing demos/training on developed feature to sales/CS team.

**Project 1->** Implementing the Lockbox security tool: Store the system fingerprint and passwords securely. Offering to store the 2000+ passwords of ESXi hosts in a remote server.

* Preparing POC, Delivering complete feature, feature demos to technical team.
* Feature involved some discussion with tool code owners to resolve the issues, effectively resolved the issue.

**Project 2->** FX License support:

* Implementing IO command, driver code changes, and review sessions.
* Worked on the ESXi vmkernel API framework and kernel driver implementation of FX license via Symmetrix array.

**Project 3->** ELMS Subscription License for ESXi hosts:

* Requirement analysis, design new license model, and module owner.
* Co-ordinated effectively with a team size of 6 members & support for Windows, Rhel, and Sles OS.

**Project 4->**Event-driven exchange of host information for ESXi/VMware:

* Receive VM information details of ESXi host from Management appliance and store data in the kernel as persistent data.

**Project 5->** Schannel + Apache mina: POC proposal, Apache mina (Client) and Windows host agent(server) communication.

* Socket programming, writing POC client-server Schannel code with available information in Microsoft KB articles.
* Resolving major issue of large size data transmission over network in async mode.
* Design document, UML graphs and code integration with product code base.
* ***Software Engineer***

**• Toshiba Software India Pvt. Ltd.** 05/2014–05/2017

*Roles & responsibilities*

* Individual contributor in building features, unit testing and guiding QA team.
* Documentation, internal demos and status update to manager.

**Project 1 ->** Cluster storage development, failover, and shared mechanism.

 • Kernel level implementation for multipathing, RDM driver, and Fence driver.

**Project 2->** **NewDB project**: Using PostgreSQL DB (distributed system)

* Built software which evaluates the aggregate the value from several DB which can scale up to million records.

**Project 3-> Flash Matrix project:**

* Developed wrapper API for NoSQL DB scan query for Insert, delete and Update.
* ***Software Engineer***

**• Mindtek India Ltd**. 03/2014 – 05/2014

Storage Access layer (ZFS) & Test tool design.

* ***IT/Hardware Engineer***

**• TMC Technologies Pvt. Ltd., UK**  02/2010 – 07/2012

*Roles & responsibilities*:

* Hardware tests and Server configuration, client requirement analysis and build customized server.
* Analyzing existing software code, provide product sustenance fixes and documentation.

## Education

**Master of Science, Embedded Intelligent systems**

*University of Hertfordshire, Hatfield, UK 09/2009 – 10/2010*

Courses:

* Neural Networks, robotics, Software-defined radio

**B.Eng. Electronics and communication**

*VTU, Karnataka, India 10/2004 – 07/2008.*

**Soft Skills & Interests**

Team player, Listener, Good Communicator, Kannada Novels/literature, Cooking.

## Recognition & Rewards

* Results: Contribution for towards release DellEMC (06/2019 – 09/2019)

**Certificates and training**

\* Linux Device driver - LLC Bangalore (10/2013) \* VMware- Install, configure and management

\* ISM- DellEMC Information storage management \* DellEMC-Cloud architecture-foundation

## References

[Available upon request.]