

## NIKHIL KUMAR SHRIMALI

Gurgaon, Delhi NCR

Haryana,

India.

Mob: +91 9560723890

Email: [nikhil.kr.shrimali@gmail.com](mailto:nikhil.kr.shrimali@gmail.com)

---

### **Profile:**

- Around 10 years of solid diversified technical experience out of which 4+ years of work experience as a Salesforce Developer.
- Good experience in Salesforce.com CRM and Force.com platform.
- Design and development of custom applications for the complex business processes in both sales and service cloud modules.
- Strong working knowledge of Force.com Platform including Apex, Visual Force, Triggers, SOQL, Unit Testing etc.
- Have worked in Embedded system, consumer & Enterprise solutions products domains.
- Have worked with globally diversified team's environment.
- Have worked with key clients like AT&T, Verizon, Intel, IBM etc.
- Resolving logged defects, version control in development environment and follows the Software Development Life Cycle process.
- Involved in Designing, Development, Testing, Implementation and Maintenance of software products and solutions.

### **Key Skills:**

- Experience in Force.com Platform - Apex Classes, Apex Triggers, Controllers, Visual Force, Batch Apex, SOQL, Unit Testing etc.
- Strong working knowledge of Sales, Service and marketing cloud.
- Salesforce Configurations/Customizations - Custom object, Custom fields, Tabs, Page Layouts, Validation Rules, Record Types
- Creating Profiles, Roles and Users
- Creating workflows, approval processes and sharing & security rules
- Ability to use different data tools – Apex Data Loader, Import Wizard etc.
- Customize Salesforce.com CRM standard objects like Account, Leads, Contact and Opportunity etc.
- C, C++, Linux, Shell and Perl scripting, Automation.
- Linux System programming, Kernel module programming, Multithreading, Socket programming, Synchronization.
- User story and Sprint creation in JIRA, Follow Agile/Scrum methodologies
- Version control tools : SVN, Rational Clearcase, Perforce, Git.
- Bug fixing and enhancements

## **Work Experience:**

### **Employer: Agilent Technologies, Inc. (Gurgaon, India)**

**Position:** Worked as a R&D Engineer from Sep. 2006 to Aug. 2009.

### **Employer: Sapient (Gurgaon, India)**

**Position:** Worked as a Senior Associate from Oct. 2011 to June 2012.

### **Employer: Samsung Research Institute, Delhi (Noida, India)**

**Position:** Worked as a Lead Engineer from July 2013 to April 2015.

### **Employer: Seagate (Pune, India)**

**Position:** Worked as a Staff Engineer from July 2015 to Feb. 2016.

### **Employer: Keysight Technologies (Gurgaon, India)**

**Position:** Working as a SDET from Dec. 2017 to till date.

## **Product experience details:**

### **PathWave Instrument Lease Platform**

PathWave is the new design and test software platform from Keysight Technologies. It combines design software, instrument control, and application-specific test software in an open development environment.

The PathWave software platform provides you with flexible and immediate access to the design and test tools you need, when you need them.

On top of the PathWave framework, PathWave offers plug-ins and applications, enabling engineers to customize the environment for their specific tasks. It's the customization combined with the interoperability provided by the common framework that allows for the most time savings.

PathWave is connected to many instruments and hardware at the same time, so a lease management application is there to verify that valid and active instruments or PC's are connected to PathWave. PathWave lease management application notifies user when lease of a particular instrument is about to expire, and It automatically sends email to inventory department. This application also maintains large database of instruments.

Triggers have been designed to ensure that valid instrument is connected to Pathwave module. Controllers and Visual force pages provide access to instrument class.

## **Roles & Responsibilities:**

- Actively involved with various business team members to gather the requirements and follow the agile methodology
- Working on both declarative and apex programming features of force.com
- Implement instrument apex class, controllers and visual force pages for various instrument functionality

- Writing before and after triggers for valid instrument to load.
- SOQL queries to fetch instrument data
- Validation rules and workflows to notify about lease expiration
- Implementing different Salesforce Configurations/Customizations

### **Samsung Digital TV platform - Tizen**

Samsung digital TV is now moving from Orsay to Tizen Platform. Samsung digital TV stack is a layered structure with different layer like SDAL(Samsung device abstraction layer), HAL(hardware abstraction layer), BP, AP etc. Platform team works at bottom most layer and deal with DTV hardware boards, kernel image on boards and board bring up etc.

Being part of the platform team involves a variety of tasks to do like:

- Samsung Smart TV board bring up and prepare setup
- Platform image and kernel image flash on DTV hardware boards like Hawk-P, Hawk-M, Golf-P etc.
- DTV Platform development and System Software Development
- Worked on kernel oops related to udev hot plugin
- Handling kernel crashes and kernel related issues
- Kernel compilation and customization on boards.
- Worked on LMN feature (Low memory notifier) for tizen and LMN porting
- Cross compilation of UDEV 182 with ARM toolchains and make udev support for Golf-P Board
- Customization of tizen tv utilities (identify libraries and binaries useful for different dtv applications)
- Resolve factory issues
- Update smart TV's main micom and sub-micom
- TV Firmware build & release
- Creation of DTV images for ATSC, DVB and ISDB standard
- Follow up on various activities and issues between globally diversified teams
- Code review
- Sync with Korea HQ for task and Updates.
- Defect fixing in KONA
- Creating and updating design documents, user guide and release notes

### **SWAP - System Wide Analyzer of Performance**

SWAP is basically a profiling and instrumentation tool that is used for Operating system kernel monitoring, debugging and performance analysis of kernel. SWAP provides dynamic instrumentation of OS kernel and user-space applications by creating loadable kernel module (\*.ko) that can be inserted into running linux kernel so there is no need to recompile the kernel with instrumented code.

SWAP is built on capabilities of Kprobe kernel debugging infrastructure with Jprobes and Kretprobe. SWAP modules have calls to Kprobe which specify a kernel instruction address the probe point, and an analysis routine or probe handler. We can add our debugging code as probe handler and can instrument almost any kernel routine.

SWAP provides following functionality to user:

- Collect profiling data of all processes, shared libraries and the Linux kernel
- Capability to instrument user space application also
- Analyse performance data like the total CPU usage, total memory usage, memory and CPU usage by each process, total number of processes
- Block trace, disk I/O operations
- File operations and file operations arguments
- Trace visualization in the form of Gantt chart, call tree graph etc.
- Sampling feature to collect any process data for a period of time

#### Roles & Responsibilities:

- Design, Develop and Implement different SWAP modules
- Test SWAP modules on different Samsung digital TV boards like Hawk-P, Hawk-M, Golf-P etc.
- Porting SWAP code from linux kernel 3.8.2 to kernel 3.10.28
- Develop instrumentation feature using Kprobe and Jprobe
- Resolve logged defects and maintenance

#### SS7 Surveillance:

SS7 Surveillance is a surveillance application that you can use to monitor the performance of your SS7 network in near real-time. It monitors and gathers performance data of your network continuously to provide you up-to-date results.

SS7 Surveillance can help in network surveillance, troubleshooting network problems, and long term network planning. This can help maximize the performance of a SS7 network, reduce customer problems, and enhance revenue.

SS7 Surveillance provides measurements to help you monitor the performance of logical links and network nodes in the SS7 network. Some of the uses of SS7 Surveillance measurements are listed below:

- Identifying nodes and logical links carrying a high load
- Identifying problems with traffic distribution
- Identifying rapid changes in traffic conditions
- Identifying causes of call completion failures
- Identifying the causes of subscriber authentication failures

The measurement results are displayed in the form of graphs that allow you to quickly identify problem areas in your network. If measurement results breach the configured threshold settings, SS7 Surveillance alerts you by generating events.

**Role:**

- System Software Development, Reviewer.
- Worked on Project integration team, to build the project with globally diversified teams.
- Bug fixing and enhancements.
- Version control in Rational Clearcase
- Creating and updating design documents, user guides and release notes.

**SPPT (Serial Port Parametric Test)**

**Module: Pattern Compiler**

The SPPT Pattern Compiler is developed in the form of a DLL. This library is loaded into the existing TSS compiler framework also known as Object File Manager (OFM). The SPPT compiler will be responsible for parsing the SPPT pattern data from the pattern file to produce actual pattern data that can be loaded onto the hardware. The compiled pattern data will be stored in a pattern object metafile (.pobj file). Pattern Syntax includes support for multiple domains, common and vendor specific sections and common constructs (labels, subroutines, etc.)

**Role:**

- System programmer, Reviewer.
- Porting the existing product on newer developed platform.
- Resource management. Product Deployment support.
- Unit testing and Root cause analysis
- Bug fixing and enhancements.
- Version control in Rational Clearcase
- Creating and updating design documents, user guides and release notes.

**PCI Express**

**Module: Gen2 analyzer: Credit/Flow Control**

PCI Express is a high performance, general purpose I/O interconnect defined for a wide variety of future computing and communication platforms. Key PCI attributes, such as its usage model, load-store architecture, and software interfaces, are maintained, whereas its parallel bus implementation is replaced by a highly scalable, fully serial interface.

A new mechanism was implemented for credit/flow control analysis in Gen2 protocol analyzer. The credits display will be done through additional columns in the packet viewer analyzer application. Just like any other columns, the user can enable them or disable them. We will have

a new factory default views, with the FC credit values enabled, for customers doing flow control analysis.

**Role:**

- Linux System Programming, PCI protocol, Code debugging.
- Design the product, Layers & module development & schedule the same.
- System Integrator, Build & Release.
- Version control in Rational Clearcase
- Creating and updating design documents, user guide and release notes
- Work with globally diversified project teams.

**AMP Platform Build**

AMP platform build is basically an aviation project that runs on Ionos platform. Ionos is based on Multi-Channel Digital Approach. Ionos provides travelers around the globe with reliable, real-time information directly from the airport's official data feed, including information about flights, security, baggage, and airport amenities. A key component of Ionos is goHow Airport, a free travel app that connects mobile phone directly to partner airports' live data feeds, including:

- Flight status
- Gate location
- Baggage claim
- Current weather conditions
- Parking availability
- Security wait time
- Ground transportation options

goHow Airport also links you to other travelers by providing impartial ratings about restaurants, shops, and services at the airport. goHow Airport is now the official travel application for Denver International Airport and Minneapolis-St. Paul International Airport and is actively partnering with airports to bring their information directly to you.

**Role:**

- Software Development, unit testing, Debugging, Bug fixing.
- Perl Scripting and automation
- Work with Oracle database.
- Version control in SVN.

## **Seagate Enclosure Firmware**

Seagate Enclosure is a storage box with 24 or 48 hard drives, all are connected with SCSI links. This enclosure is used in today's cloud technologies and to store large amount of data over cloud. SAS protocol is used to move data to and from these drives. The SATA drives can also be connected to SAS backplanes.

There are different sensors like temperature sensor, power cooling sensor, battery sensor etc. We need to continuously monitor these sensors to check the health of enclosure. There is a master and slave canister combination to ensure that data is never lost.

### **Roles & Responsibilities:**

- System Software Developer, Code Reviewer.
- Bug fixing and enhancements.
- Version control in git / JIRA
- Creating and updating design documents, user guides and release notes.
- unit testing, Debugging
- write code for different services in Canister and for sensors monitoring
- Run SCSI commands over different channels like USB, LAN etc. and check the results.

### **Internship:**

- 45 days training at Regional Remote Sensing & service center, Indian Space Research organization, Jodhpur, India.  
Worked on GPS, Satellite Remote Sensing etc.
- 45 days training at Dmatics Software Solutions, Jodhpur, India on C/C++.

### **Personal Details:**

Qualification: B.E. (Information Technology)  
University/Board: University of Rajasthan, Jaipur  
Duration: 2001-2005  
Marital Status: Married  
Nationality: Indian  
Languages Known: English, Hindi, and Marwadi (Regional).