**Curriculum Vitae**

**Name** Vinay Kumar

**DOB** 24th Nov, 1984

**Current employer** Samsung R&D Institute India – Bangalore(Feb 2010 - Till date).

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**Objective:**

Looking forward to work with an organization that gives me scope to apply problem solving and technical skills by providing challenging work environment and opportunities for personal and professional growth.

**Qualification:**

* **Master of Science** **(System Software).**(2008-2010) with 6.94 CGPA

Birla Institute of Technology and Science, Pilani, Rajasthan,

* **Bachelor of Engineering (Computer Science).** (2003-2007) with 75%

Sapthagiri College of engineering, Bangalore, Karnataka. (VTU)

**Work Experience:**

I have more than 7 years & 6 months of extensive industrial experience in development of Smart Home, Mobile Browser, Samsung Cloud and Server Management Tools in C, C++ and Java & Android.

**Previous Employment Details:**

Larsen & Toubro Infotech Limited, Bangalore (July 2007 - Feb 2010).

**Professional Skills:**

* *Excellent programming and debugging skills in* ***C, C++*** *Programming*.
* *Good Programming skills in JAVA & Android*.
* *Good working experience in Designing & Implementing of* ***Data-Structure, Algorithms*** *and Memory Mgmt.*
* Good working knowledge of Samsung Cloud services and **Samsung HomeSync**.
* Good working knowledge of Chrome Extension for **Android Browser** and **Samsung BADA Browser**.
* *Experience at Samsung Electronics in Re-Engineering and optimization of Windowing system*

*Of* ***web browsers*** *on SHP platform.*

* Strong analytical and problem solving skills with ability to work independently or in team as required.
* Good knowledge of processes and software development life cycle (SDLC).

**Technical Skills:**

**Operating/Platform** Android, Windows, Samsung BADA, SHP Platform

**Languages** C, C++, Core JAVA

**Advanced/Web Technologies** HTML, Java script, XML

**IDE**Microsoft Visual Studio 2005/2008, Eclipse

**Databases** SQLite, MS - SQL

**Tools and Utilities** Clear case, Perforce, Klocworks and Prevent Tools

**Relevant Project Experience:**

**#1**

***Organization: Samsung R&D Institute India***

***Project:*  *Samsung Smart Home Protocol in Open InterConnect Consortium (OIC)***

***Duration*** Jun’14-till now

***Technology:*** C++, Java, Android

***Project Abstract***

It is communication protocol for smart home devices and offers various smart home services. This includes device control, home monitoring, energy management and services provided by cloud servers. Currently we are integrating with Open Interconnect (OIC) framework

***Role:*** Developer

***Responsibilities***

* Designing and Development of Smart Home Platform in OIC Framework.
* Implementing of JNI Interface between Java and native.

**#2**

***Organization: Samsung R&D Institute India***

***Project:*  *Migration of Smart Home Platform for Samsung HomeSync 2.0***

***Duration*** Nov ‘13 – Jun’14

***Technology:*** JAVA, C++, Android

***Project Abstract***

**Samsung HomeSync 2.0** is an Android Device act as Android TV and which involves providing the **Smart Home Gateway** to the end user. User can control and monitoring all Home Devices remotely using Smart Home Mobile Client through **Smart Home Gateway** .

***Role:*** Developer

***Responsibilities***

* Designing and Development of Smart Home Platform.
* Implementing of JNI Interface between Java and native.
* Enabling the Smart Home Gateway for Zwave and ZigBee enabled devices.

***#3.***

***Organization: Samsung R&D Institute India***

***Project:*  *Samsung Personal Cloud (SPC) Content Solution for Samsung HomeSync***

***Duration*** Feb ‘12 – Nov ’13.

***Technology:*** JAVA, C++, Android

***Project Abstract***

**Samsung HomeSync** is an Android Device act as Android TV and **Samsung Personal Cloud server** which involves providing the personal Cloud to the end user, which can customize, configure and use as a Personal Cloud. Features like Storage, Browse, Sharing, Downloading, Uploading of Media and Non-media contains across your mobiles and HomeSync devices.

***Role:*** Developer

***Responsibilities***

* Designing and Development of Samsung Personal Cloud Server.
* Implemented of ReST Handler & ReST Parser.
* Implemented of SQLite DB, Android Media Scanner.
* Design & Implementation of Private and Secure Area for HomeSync.
* Be part of Designing and Development of HomeSyncClient ,which is a Client to use SPC Server
* Prepare unit testing scenarios and test cases to check the functionality of the feature developed.
* Prepared high/low level design document for SPC.
* Showcased the SPC to Samsung Electronics HQ (Korea) and in SISO.
* Fixed the issues and bugs during testing phase.
* Integration of External Cloud Storage like SugarSync, DropBox with HomeSync.

***#4.***

***Organization: Samsung India Software Operations***

***Project:* *Development of Chrome Extension feature on Samsung Dolfin Browser &***

***Android Browser***

***Duration*** Jan ‘11 – Feb ‘12.

***Technology:*** C, C++, SHP***,*** Android

***Project Abstract***

This project involved Re-Engineering of Chrome Extension framework to SHP (Samsung handset platform) platform (BADA) and Android platform. Chrome extensions are small software programs that can modify and enhance the functionality of a Browser. Google Chrome Extensions are coded using web technologies - HTML, JavaScript, and CSS.Dolfin & Android browser is developed in-house by Samsung using open source Webkit browser engine for Samsung Mobile .Chrome extension framework allows deploying extensions in Google extensions gallery with Chrome browser. Same extension framework when integrated to Browser on SHP & Android.

* Implemented the integration layer to integrate the chrome extension framework to Browser.
* Chrome extension interfaces with Browser for HTML and CSS and executing Java scripts.
* It Interfaces with Browser UI to provide user interaction (extension listing, installation, enabling/disabling and uninstallation).

***Role:*** Developer

***Responsibilities***

* Implementation of Chrome Extension framework to **BADA & Android for Browser**.
* Development of interaction of native browser feature with extension like history, bookmark, tabs extensions.
* Development of some Extensions like Sticky Notes, Screenshot, Web2Pdf, Dictionary using JavaScript and HTML.
* Prepared high/low level design document for Chrome Extension framework.
* Prepare unit testing scenarios and test cases to check the functionality of the feature developed.
* Handled the Target build and related issues.
* Fixed the issues and bugs during testing phase.

**#5.**

***Organization: Samsung India Software Operations***

***Project: Fennec Browser Porting in Samsung Handset Platform (SHP)***

***Duration*** Feb ‘10 - Jan ‘11

***Technology*** C, C++, SHP, SQLite

***Project Abstract***

The objective of the project is to port the Fennec Browser to Samsung Handset Platform (SHP) and achieve a satisfactory level of performance. Fennec Browser is a mobile version of Mozilla Browser. Fennec is a XUL-based web browser designed for mobile-class devices, especially those with touch screen support. Fennec shares much of its platform support with Firefox.

***Role***

Developer

***Responsibilities***

* Study of the Fennec Code Architecture.
* Jemalloc memory allocators for Memory Management.
* Porting of Windowing subsystem of Fennec to SHP.
* Porting of File-system for Fennec to SHP.
* Porting of SQLite to SHP.
* Test the performance of windowing subsystem event handling.

**#6.**

***Organization: Larsen & Toubro InfoTech Ltd***

***Project: Ittentive Suite - Server and Desktop Management System Tool***

***Duration*** Sep'08 to Till Feb'10

***Technology*** C, C++, Win32, SNMP, MS-SQL

***Project Abstract***

Server Management system is a tool developed as a part of Ittentive suite to monitor servers in the network as a part of infrastructure management system. It involves monitoring and administration of various servers. Monitoring involves setting up various profiles and setting thresholds as needed resulting in actions as set.

Desktop Management System is a tool developed as a part of Ittentive suite to manage desktops in the network as a part of Infrastructure Management System. It involves support for asset inventory and software delivery. Asset inventory involves fetching of system inventory details from all the discovered desktops in the network. Software delivery involves deployment of software to the specified system. The entire system is based on Manager-Agent architecture.

***Role***

Developer

***Responsibilities***

* Involved in various phases of software development life cycle including requirements, design, coding and testing for the Server Management System.
* Requirement Analysis of Discovery of Servers
* Successfully developed Inter process Communication (Named Pipe) module.
* Successfully implemented communication layer modules involving socket programming.
* Successfully developed Parser module as a part of manager functionality.
* Successfully developed Web-SMS module as a part of Notification functionality.
* Responsible for Integration & Quality assurance of Product till date.

***#7.***

***Organization: Larsen & Toubro InfoTech Ltd***

***Project: SVG Player for MicroBrowser***

***Duration*** Oct ‘07 - Aug ‘08.

***Technology*** *C/C++, WIN32*

***Project Abstract***

The project involves development SVG Player for Browser application for mobiles/PDAs or any hand held devices.A SVG 1.2 specification is a Scalable 2D Vector graphics implementation for Windows Mobile. It is 2D Graphics player for Browsers. SVG Engine Supports Rendering of the SVG document as per SVG Specification. In this SVG parser parses the SVG document and creates the data tree and the corresponding DOM tree for the data tree is created.

***Role****:* Developer.

***Responsibilities***

* Study of SVG 1.2 Specification.
* Involved in various phases of software development life cycle including requirements, design, coding and testing.
* Successfully developed of SVG Parsers that analyse the source and creates a data tree that represents the tags in the source and their hierarchy.
* Validation of Parse Tree to verifying of validity of Parsing
* Successfully developed Rendering Engine that render the representation of the DOM, organizes the elements of the DOM tree and outputs the render tree to a display screen.

**Declaration:**

I hereby declare that the above statements are correct and true to the best of my knowledge.

**Vinay Kumar**