

VIKAS SINGHAL

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**SUMMARY****PROFILE**

- Over 11 years of Experience in Developing Software Solutions in **C/C++/VC++/Unix Skills** with good blend of Functional and Technical knowledge, along with being an Innovative Engineer with vast Experience.
- In depth knowledge across **Telecom Technologies - GSM, GPRS, EDGE, UMTS, Mediation, Billing, Rating and Healthcare Domain** with strong hands on Technical Expertise as well as proposing suitable Technology Stack for a solution to problem domain.
- **Onsite Experience** at Customer locations in European Countries - **Sweden, The Netherlands**
- Extensive knowledge on Object Oriented Concepts for a problem in required solution.
- Resourceful, Self-motivated and Efficient Leader with Excellent Communication, Analytical and Interpersonal skills with ability to find facts, take decisions, execute them under adverse condition and quickly adapt to new environments and manage contingencies, with a successful track record of providing the best possible solution to a problem
- Strong Team Builder with proven Leadership Quality, and Development skills and ability to motivate team members towards achieving the set target.
- Understanding of SDLC Methodologies, end to end IT project delivery, working knowledge of **Agile** Development Methodologies, Application Development and Management.

OBJECTIVE

- Intend to build a career with leading corporate of Hi-tech and challenging environment that provides an opportunity to learn key technologies and to be an asset for the organization by delivering to the best of my capabilities.
- Currently seeking a challenging Position that provides Program, Project and Team Leadership opportunities in Developing and Managing Projects.

TECHNICAL AND DOMAIN SKILLS

Programming Languages	C, C++, VC++, MFC, UNIX, Shell Scripting, Perl, ProC, SQC, Protocol Stack Development
Technologies/Domain	Telecom - Mediation, Rating, Billing, GSM, GPRS, EDGE, UMTS, Healthcare
Database	SQL, DB2, ORACLE
Operating System	Linux, UNIX, AIX5.2, SUN OS, Window 7/Vista/XP, Solaris, DOS
Development Tools	Microsoft Visual Studio 2012, Microsoft SQL Server 2008 Management Studio, Code Composer Studio, Sun Studio, Source Navigator, DDD Debugging Tool, McCabe, VI Editor, Kate Editor, Edit-Plus, Ultra-Edit, Xming, ReflectionX, Putty
Configuration Tools	Tortoise SVN, CVS, Rational Clearcase, Cascade, Rational Clearquest

CERTIFICATIONS

- Lean and Six Sigma Yellow Belt Certification – Capgemini India Private Limited
- Software Engineering Level 1 Certification – Capgemini India Private Limited
- Service Oriented Architecture (SOA) Level 1 Certification – IBM India Private Limited

AWARDS AND RECOGNITIONS

- **Xtra Mile Award**, August – 2014 for achieving Excellence in Customer Delivery for Sogeti India within Capgemini India Private Limited
- **Project Star Award**, Q2 – 2013 for my outstanding Performance and lasting contribution in MedAssets, USA Project – Capgemini India Private Limited
- **Project Star Award**, Q1 – 2012 for my outstanding Performance and lasting contribution in TDC, Denmark Project – Capgemini India Private Limited
- An Appreciation from the Senior Management, for being able to achieve allotted Business Goals and Targets – Capgemini India Private Limited and IBM India Private Limited

DETAILED PROFESSIONAL EXPERIENCE

1. SENIOR CONSULTANT – CAPGEMINI INDIA PRIVATE LIMITED – SEPTEMBER 2008 TILL DATE

Project #1	CBO - Import and Reprice Engine Logic	Role	Sr. Application Developer
Customer	MedAssets - Texas, USA	Location	Bangalore, India
Technologies	Healthcare, C++, SQL, Microsoft Visual Studio 2012, EditPlus, Microsoft SQL Studio 2008, SVN Configuration Tool, Healthcare		

Description

CBO is a monolithic C++/MFC application that encompasses the Import process and Reprice Engine logic used by Contract Manager web application which aims to increase the revenues of the providers/hospitals and hence thereby improving the quality and effectiveness of the Healthcare Industry. The Import Process is about the transfer of Patient Data like Admit Date, Discharge Date, Inpatient, Outpatient etc associated with the client/hospital/facility to MedAssets Contract Manager System. The Reprice Process is about calculating the expected reimbursement values of the claims submitted by the facility associated with the patient using the contract terms and conditions designated by the client for the Payors/Insurance and so thereby reducing the losses and increasing the revenues of the provider/hospitals.

Responsibilities

- Collecting and Translating Business Requirements into clear & comprehensive User Stories & Defects
- Designing the Framework and Coding/ Review of the assigned Modules
- Maintaining Code Coverage, Unit, Integration & System testing of the entire Application
- Participation in Release, Sprint Planning, Sprint Sizing and Retrospective Meetings

Project #2	Mobile Mediation EventLink	Role	Team Lead, Sr. Application Developer
Customer	TDC – Denmark	Location	Mumbai, India
Technologies	Mediation, Rating, Billing, C, Perl, Unix Shell Scripting, Oracle/ DB2/ SQL, VI Editor, CVS Configuration Tool, Mediation, Billing, Rating		

Description

Mobile Mediation Eventlink is TDC's Mediation system for Postpaid Wireless usage i.e. a Mediator between Telecom Switches and Billing System. This system is built mainly on COMPTel - EVENTLINK product. MME system is composed of various EL4 Rulesets / EL6 Streams where each is responsible for handling a specific type of traffic. Example: MSC ruleset mainly handles Voice traffic and SMSC stream mainly handles SMS traffic.

Responsibilities

- Project Planning the activities of the Team; Monitoring and Reporting on progress

- Organizing, Leading and Reporting weekly Meetings of the Team
- Analysis of the desired functionality & documenting this into High Level and Low Level Documents
- Assigning tasks and explanation of issues to the team
- Designing the framework and Coding/Review of the assigned Modules
- Maintaining Code Coverage, Unit, Integration & System testing of the entire Application
- Setting up the Knowledge base for the project

Project #3	HP Vision Diagnostic	Role	Team Lead, Sr. Application Developer
Customer	HP - Fort Collins, USA	Location	Mumbai, India
Technologies	Windows, Microsoft Visual Studio (2003 and 2005), Edit-Plus, Tortoise SVN, C, C++, STL libraries, COM		

Description

HP vision diagnostics is hardware diagnostics framework which has enabled HP production unit to ensure the quality and device functionality of hardware units (PCs, Mobile PCs and Servers) as per standard before delivering it to the client. It has capabilities to test range of PC hardware such as Motherboard, video, audio, chassis, networks, USB etc. The object of this tool is to test the HP products after they are assembled in the factory to check all the devices of the products are connected as well as in working condition.

Responsibilities

- Project Planning, Organizing, and Reporting weekly and monthly Meetings (WSR and MSR) of the Team
- Designing the framework, Preparing Technical solutions to given problem domain, examining the issues and keeping track of the progress of the project, reviewing solution of the issues, weekly status meeting with onsite Technical Architect for deciding on solutions Development, testing & bug fixing
- Analysis of the desired functionality & documenting this in a User Requirements Specification
- Coding/Review of the assigned Modules, working on Artifact, Defect and Change Request.
- Unit, Integration and System testing of the entire application
- Setting up the Knowledge base for the project

Project #4	Life Insurance Calculation Module for the Wabeke Compensation	Role	Sr. Application Developer
Customer	ABN AMRO Insurance (AAV), Utrecht, The Netherlands	Location	Utrecht, The Netherlands
Technologies	Windows, Unix, Cascade, Ultra-Edit, Shell Scripting, C, C++		

Description

Designing of the new Calculation Module according to the specification from the client, this is integrated with Life, a back office system of AAV. This Module will further automate the calculation rules to determine the norm capital for use in other systems.

Responsibilities

- System Design of the assigned Modules
- Coding/Review of the assigned Modules, Unit, Integration and System testing of the entire application
- Analysis of the desired functionality & documenting this in a User Requirements Specification

Project #5	VIDAR Mediation System Migration to LINUX	Role	Sr. Application Developer
Customer	Telenor, Sweden	Location	Karlskrona, Sweden
Technologies	Mediation, Rating, Billing, C++, Shell Scripts, CVS, VIM, Kate, Xming, ReflectionX, Putty, Linux, SQL		

Server 2000

Description

VIDAR (Validation, Insampling/Collection, Distribution, Aggregation and Rejection) is a mediation system that provides a unified framework for collecting usage records from platforms & network elements & pushing them to assorted target systems. VIDAR collect rating data (billable information), usage statistics (settlement & data warehouse) & revenue assurance information from the network elements and then apply numerous business rules before the collected data is delivered to recipient systems (including TOR); either as highly configurable file formats or directly to databases through a standard interface.

Responsibilities

- System Design of the assigned Modules
- Coding/Review of the assigned Modules, Unit, Integration and System testing of the entire application
- Analysis of the desired functionality & documenting this in a User Requirements Specification

2. SENIOR SYSTEMS ENGINEER – IBM INDIA PRIVATE LIMITED – NOVEMBER 2006 TO JULY 2008

Project	Development of Mediation Software for IBM BSS/OSS Implementation	Role	Team Lead, Application Developer, Mediation Configuration Controller
Customer	Bharti Airtel, India	Location	Delhi/Gurgaon, India
Technologies	Mediation, Rating, Billing, C, C++, ProC, SQC, Shell Scripts, Oracle/ DB2/ SQL, Putty, Edit-plus, VI Editor, Rational Clearcase/ Clearquest, AIX 5.2, Unix		

Description

The IBM OSS/BSS Optimization enables service providers to integrate Business and Operational Support Systems that typically require costly point-to-point integration and underutilized resources thereby reducing the cost of operations and enable quick response to changes in business climate. A Billing Mediation Platform is a system used to convert data types of a certain type (CDR) to other data types for Arbor Billing Systems.

Responsibilities

- Project planning Organizing, Leading and Reporting Weekly Meetings of the team
- Designing the framework and Coding/Review of the assigned Modules
- Maintaining Code Coverage, Unit, Integration & System testing of the entire Application
- Analysis of the desired functionality & documenting this in a Requirements Specification
- Full ownership for all VOB creation and their regular/timely/correct updating with Artifacts

3. SOFTWARE ENGINEER – SASKEN COMMUNICATION TECHNOLOGIES LIMITED – MARCH 2006 TO NOVEMBER 2006

Project	GPRS Test Tool to simulate Packet Control Unit	Role	Application Developer
Customer	Nortel	Location	Bangalore, India
Technologies	GPRS Layers – LLC and RLC/MAC- Protocol Stack Development, C++, Shell Scripts, SQL Server 2000, Xming, VIM, GVIM, Sun Studio, Source Navigator, DDD Debugging Tool, Rational Clearcase, Solaris		

Description

The GPRS Test Tool (GTT) is a tool for the GPRS system and the core PCU that provide a mean of testing the GPRS network elements like PCUSN, in order to improve its robustness and help for dimensioning. The purpose of the GTT is to simulate the PCU environment - On the AGPRS side (Nortel proprietary) the BSS: OMC, BTS and BSC: they configure the PCU, On the AGPRS side the mobiles (MSs): they create and manage uplink TBFs and they manage downlink TBFs.

GTT manages RLC/MAC protocol on MS side, On the Gb side: the SGSN: it activates downlink flow control and traces uplink LLC frames. GTT manages BSSGP protocol on SGSN side.

Responsibilities

- System Design of the assigned Modules, Coding - Protocol Stack Development
- Code Review of the assigned Modules
- Maintaining Code Coverage, Unit, Integration & System testing of the entire Application

4. SOFTWARE ENGINEER – ARICENT (FORMERLY FLEXTRONICS SOFTWARE SYSTEMS) – JUNE 2004 TO SEPTEMBER 2005

Project	GSM/EDGE supporting BTS (Base Transceiver Station)-EPSILON	Role	Application Developer
Customer	Nokia, Finland	Location	Gurgaon, India
Technologies	GSM Layers – LAPD and RR Protocol Stack Development, C, C++, TCL/ TK, VIM, GVIM, Code Composer Studio, McCabe, Rational Clearcase, Windows 2003		

Description

Designing of the new Telecom Software Module for EPSILON BTS which is critical for Nokia networks to retain profitability and fund R&D activities. The Hardware environment for the Telecom Software in Epsilon BTS is the TRX board based on TI (Texas Instruments) TMS320 C6416 DSP processor with ASIC. The Telecom Software module resides on TRX box C6416 processor. The Telecom tasks include RR (Radio Resource), LAPD (Link Access Protocol for D Channel) and LAPDm (LAPD modified).

Responsibilities

- System Design of the assigned Modules, Coding (Protocol Stack Development) of the assigned Modules
- Maintaining Code Coverage, Unit, Integration & System testing of the entire Application
- Testing TRX Hardware design, Creating Test Reports, SPR Tracking, Product Integration Testing

5. ENGINEER TRAINEE – BHARTI TELETECH LIMITED – AUGUST 2001 TO SEPTEMBER 2002

Project	Circuit Designing of Basic, Speaker, High-End Feature Phones	Role	R&D Engineer
Customer	Airtel	Location	Gurgaon, India
Technologies	ORCAD, PCB Designing, Parameter setting on Microtonix Test System- DTMF levels, Acoustic parameters, Transmit and Receive Noise, Windows		

Responsibilities

- Electronic Circuit Designing, PCB Designing, Testing and Troubleshooting of PCB's
- Approval of Basic and High End Telephones from the TEC (Telecommunication Engineering Center)

Note: I had also worked as a Project Engineer with Wipro Technologies - Bangalore from September 2005 to March 2006, as an OSS Engineer with Nokia Siemens Networks Pvt Ltd – Gurgaon from July 2008 to August 2008 and as Module Leader with Wipro Technologies – Bangalore from August 2008 to September 2008 during my employment period.

EDUCATION

Master of Engineering	Electronic Product Design and Technology, 2002 - 2004, from Punjab Engineering College Chandigarh (Punjab University), Second Rank, 75.3%
Bachelor of Engineering	Electronics & Communication, 1997 - 2001, from Institute of Technology & Management-Gurgaon (M.D.U. Rohtak), First Rank, 76.75%

GATE Score	Qualified GATE-2002 which is conducted jointly by the Indian Institute of Technology and Indian Institutes of Science. Scored 89 Percentile in Electronics & Communication. Qualification Rate is 10% of the entire candidates who appear in this exam nationwide
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PERSONAL DETAILS

Date/ Place of birth	26 th October, 1979/ New Delhi, India
Languages	English (Fluent), Hindi (Fluent/Native)
Nationality	Indian
Passport	M3193105
Marital Status	Married
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REFERENCES ARE AVAILABLE ON REQUEST