**Ashwini Kumar**

**Software Engineer**

* **Profile**
* Worked with **Cognizant Technology Solutions** as **Software Developer** from Sept 2013 to April 2017.
* In CTS handling 3 projects DIVA,MIRA application for Credit Suisse client and UPS-OPS for United Parcel Service client.
* Worked in **Wipro Technologies** as a **software engineer** from August 2009 to August 2013 **.**
* Competent in **Data Structures , C++,STL, Multithreading and Design Patterns.**
* Got Outstanding contribution for the financial year 2010-2011
* Worked in ip telephony project for Avaya customer .
* Proficient in development of Base Station Controller software for Wireless Telephony in GSM/GPRS.
* **Technical Skills**

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| **Technologies Worked** | Banking and Finance, Manufacturing and Logistics, IP Telephony , GSM/GPRS |
| **Platform** | LINUX, Windows 7, VxWorks |
| **Protocols** | GSM Protocols(Um, A and Abis interface). |
| **Languages/Scripting** | C,C++,TNSDL,C#,Shell Scripting. |
| **OS** | LINUX, UNIX and Windows |
| **Database** | Oracle, Rapid SQL, C-Tree DB. |
| **Tools** | SVN, IBM Rational Clear Case, Source insight,Tornado,SPM, Visual studio 2010 /2015, Rapid SQL,Redbrick tool , Logextractor , Tree message submitter. |

* **Personal information**

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* **Educational Development**
* Bachelor Of Technology

(Computer Science and Engineering) 2008

Meerut Institute Of Engineering and Technology , Uttar Pradesh technical University. **72%**

* Higher Secondary , 2004

D.A.V. Public school 65%

* Secondary, 2002

D.A.V. Public school 73%

* **Trainings**
* Banking and Finance domain.
* Manufacturing & Logistics.
* Telecom Domain.
* C++ and Unix.
* Linux.
* **Key Skills**
* Team Management.
* Quick Learner
* Adaptable to Changes
* Self starter and self motivated
* Competent in :
* Data Structures
* Design Patterns
* STL
* Multithreading
* C++
* **Experience**
* **UPS- OPS**

**(August 2016 - April 2017)**

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| **Project Name:** | UPS-OPS |
| **Domain:** | Manufacturing & Logistics |
| **Programming Languages:** | C++,C#, Shell scripting |
| **Development Tools:** | Eclipse/CDT**,** gdb, valgrind,Visual studio 2010. |
| **OS:** | Linux,Windows |
| **Databse:** | Rapid SQL,C-tree DB. |
| **Duration:** | August 2016 to May 2017 |

**Project Description:-**

UPS is united parcel service where the parcels are labelled and minimum path is used to find out between the destination and the postal address so that maximum deliveries can be done at a particular time.

In UPS-OPS , Messages are inserted into message queue and based on the message type insertion, deletion or updation is done to the ctree database. All the operations are done country wise. In message queue all country messages are inserted and based on the message type and country code, the messages are segregated.

**Roles and Responsibilities:**

I am involved in all the phases starting from Requirement Analysis till Release of software. i.e.

* Requirement and Estimation
* Coding
* Unit Testing and Review
* Versioning and Releasing the Software
* **DIVA , Mira**

**( Sept 2013 - April 2017 )**

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| **Project Name:** | DIVA , MIRA |
| **Domain:** | Banking and finance |
| **Programming Languages:** | C++,C#, Shell scripting |
| **Development Tools:** | Visual studio 2010 , Rapid SQL, Redbrick tool , Logextractor , Tree message submitter. |
| **OS:** | Linux,Windows |
| **Databse:** | Oracle. |
| **Duration:** | August 2016 to May 2017 |

**Project Description:**

**DIVA** is a server side application used for enrichment, figuration,commission calculation , booking the trades entered by the clients . Diva provides a mechanism which allows smart reconciliation process based on trades captured from back of Agora ( Order management system) against allocation instructions passed through various transport protocols from client.Diva is windows service which reads allocation through mail and reconcile allocation with agora to book the instructions.Recently released successful Gen3 migration of Diva.

**MIRA** application is similar to DIVA application but the implementation logic totally different.MIRA is also used for enrichment, figuration, commission calculation, booking the trades entered by the clients and sending them to fidessa.

**Roles and Responsibilities:**

I am involved in all the phases starting from Requirement Analysis till Release of software. i.e.

* Lead Team of 3 people
* Done Gen3 Migration of DIVA from scratch.
* **AVAYA Tier 4**

**( Sept 2010 - Sept 2013 )**

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| **Project Name:** | Avaya Tier4 |
| **Domain:** | Telecom |
| **Programming Languages:** | C,C++,Vxworks |
| **Development Tools:** | Clear Case, Tera Term, Tornado, Source Insight |
| **OS:** | Unix,Windows |
| **Protocols:** | H323, TCP/IP |
| **Duration:** | Sept 2010 to Sept 2013. |

**Project Description:**

Avaya Tier4 solutions that help Avaya to solve the customer related problems which is related to phone side debugging and enchanting new features in Avaya Phones. It drives growth and increase profitability through improved customer and employee loyalty and engagement. The key components include:

* Avaya Tier4 helps Avaya to extend the value and benefits of Avaya’s Customers.(Avaya Phone Users).These are basically related to four different Avaya Phones. **96xx Phones,9670G Phones,T3-ISDN Phones, T3-IP Phones, OS-33 Phones and Spice@I55 Phones**.
* The Work is related to UI, DHCP, NETWORK, AUDIO, MMI and CUSTOMER DATA of the phones mentioned above.
* I have worked on the development related to UI, DHCP, NETWORKING, BLUETOOTH, MEMORY LEAK , HOT DESKING, RTCP Packet Loss and development related to PHONE CERTIFICATES, PARTNER GROUP and CUSTOMER DATA of Phones. Moreover I have implemented some features in Phones like Alarm Server and some modules related to partner numbers of the Avaya Phones.
* **Nokia Siemens Network**

**( April 2010 - August 2010 )**

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| **Project Name:** | Nokia Siemens Networks |
| **Domain:** | Telecom |
| **Programming Languages:** | C++,TNSDL |
| **Development Tools:** | SPM, WINSOFIA,CODEMAN, KANTAKOSKI, CHALLENGER, HIT |
| **OS:** | Unix,Windows |
| **Protocols:** | GSM/GPRS |
| **Duration:** | Apr 2010 to Aug 2010 |

**Project Description:**

BSS project involves development of BSC software for Wireless telephony. On the core

telecom part, the project aims to develop software for the Um, A and Abis interface based on

the 3GPP specification set. Features like A interface on IP, Packet Abis over ethernet/TDM,

local switching, OSC and cositing of the leading 2 types of BTS are the main scope of this

project.

**Roles and Responsibilities:**

* Involved in development and white box testing of software module i.e Radio Resource

Management.

* The main task for RRMPRB is allocation of dedicated radio environment

resources for call setup and handover purposes.

* Active participant for creating BSC Architecture software for the above mentioned Module.
* Quickly learnt and applied myself to the proprietary client tools and architectures.
* **GSM ABIS TRXSIG/OMUSIG Wireshark Plugin**

**(Nov 2009 to March 2010)**

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| **Project Name:** | GSM ABIS TRXSIG/OMUSIG Wireshark Plugin |
| **Domain:** | Telecom |
| **Programming Languages:** | C |
| **Development Tools:** | Wireshark |
| **OS:** | Unix,Windows |
| **Protocols:** | TRXSIG/OMUSIG |
| **Duration:** | Nov 2009 to March 2010 |

**Project Description:**

It is designed to work as a plug-in over Wireshark. Currently this plug-in supports a limited set

of TRXSIG/OMUSIG messages. The gsm\_omusig dissector plug-in will dissect the abis

TRXSIG/OMUSIG packets (application message type packets).The dissector can dissect up to

byte level details. The message format for dissection is based on the 'Abis O&M Interface

specification RG20’.

**Roles and Responsibilities:**

* Upgraded the initial WireShark Tool using C Application.
* Developing the dissection functionality of the above mentioned tool.
* Completed the Wireshark tool upgradation within the prescribed time limit.

**Trainings in Wipro :**

* Completed (Unified Competency Framework) **UCF Cpp 1.1** (Contains C++ based techincal questions)
* **UCF Unix Sys CPP 2.1**(Contains Unix and C++ based technical questions) in Wipro Technologies.