CAREER OBJECTIVE

To be a creative and proactive employee in a growth oriented organization. To make maximum utilization of the technical skills possessed for organization's growth, and to achieve heights of success through constant learning.

PROFILE

Senior Software Engineer with around 4.5 years of work-experience.
• Currently working as SSE with Packet Design,

• Worked as SDE with McAfee part of Intel Security Group for 2 years, on the Whitelisting Security Solutions for Linux based Embedded Devices

• Started as a software Developer with Aricent Group, worked there for around 2 years

Specialties:
- Exposure to kernel programming
- Experience in Security and Networking domain
- Experienced in Network Socket Programming, IPC, Multithreading
- Familiar with Agile software development methodology
- Fast learning abilities, problem analysis and ability to solve problems efficiently
- Effective time management skills

EXPERIENCE SUMMARY

Packet Design, April,2016 - Present
Packet Design, a network performance management software company pioneering on Route Analytics technology, providing solutions for network discovery, real-time monitoring and routing diagnostics.
Profile: Senior Software Engineer
Projects:

Extending Collector Module, April 2016 – Present
All the information required for routing diagnostics is collected by participating as a peer in the network to passively "listen" to routing protocol exchanges between routers. For the remaining missing details collector module is used to login to each router and get information.

Responsibilities:
- Extend the collector module to get the VRF related information on Cisco-IOS-XR routers, which included-
  o Complete research on all the configuration options for VRF
  o Implementation
  o Setting up configuration locally
- Training on the collector module
- Parsing using LEX and YACC
- Setting up GNS3 virtual lab for testing purposes
- Bug fixes

Intel Security Group, January 2014 – March 2016
McAfee, now part of Intel Security. Intel Security products and solutions span across the areas like Data Center Security, Database Security, Email & Web Security, Endpoint Protection, Mobile Security, Network Security.
Profile: Software Development Engineer
Projects:

1. MACC 7.0.0, August 2015 – Present
MACC (McAfee Application Change control) a security solution for windows platform. It is a whitelisting based solution; any binary is allowed/denied execution depending on its reputation score.
Responsibilities:
- Implemented the Network change notification module, to get the network connectivity changes from OS. The purpose is to maintain the current network connectivity state and the reputation source
- Owner for the state machine module for the "TIE reputation" and "GTI reputation" features
- Reduced the product's boot time by creating a multithreaded solution
- As part of optimization and to improve user experience, added support to identify potential deadlocks in service and handling the same
- Actively coordinated with the other McAfee teams involved
- Extending the existing framework to support windows 10
- Updated the debugging tool, to gather data at client site in case of any issue reported
- Bug fixing

2. MEC, January 2014 – August 2015
MEC (McAfee Embedded Control) a whitelisting based Security Solution, the project aimed at integrating with Wind River Linux (WRL), a software development environment to create optimized OS for the embedded devices. With WRL one can configure and build boot images.
Responsibilities:
- Extended the framework to support new boards for the embedded devices
- Code optimization, **reduced the product's boot time by 40%**
- Added support for various WRL releases
- Added support for systemd (WR5.0 supports only SysV, WR6.0 onwards we can configure a project with either SysV or systemd init framework)
- Added upgrade support for the embedded framework
- Bug fixing

Aricent Group, November 2011 – December 2013
Profile: Software engineer
Projects:
1. RNC Project
RNC (Radio Network Controller) responsible for controlling the Node Bs (the towers controlling the end point devices) that are connected to it.
Client: Nokia Siemens Networks
Nokia Siemens Networks a leading provider of mobile and fixed network infrastructure solutions.
Responsibilities:
- Responsible for Quality assurance of BOIMED (BTS OMS Interface Mediator) module, which provides an interface between BTS/OMS and RNC
- Performing fault management activities(Pronto)

- Reduced manual effort in testing by automating the testing suite of the module
- Worked and enhanced a Java based BTS-OMS simulator used for testing the module and integration of the same in the CI (Continuous Integration) loop
- Consistently met CI (Continuous Integration) SLA targets
- Undertaken several independent feature development and CR (change requests) implementation
- Proactively monitored the automation jobs and resolved any failed batch-jobs before the business users access the system

2. Nalanda Training

- Successfully completed the **PRISM** Training Program at Aricent Nalanda, from November, 2011 to February, 2012
- Completed hands-on training in C Programming, Data Structures and Algorithms, Computer Systems, Programming Tools, Computer Networks and Software Engineering

TECHNICAL SKILLSs

Languages   : C, C++
Concepts   : Data Structures, Operating system, Algorithms, kernel programming, Socket Programming, SDLC, system internals
Tools   : Wireshark, SVN, GNU Debugger, valgrind
Scripting Language   : Shell Script
Operating System   : UNIX and Linux

EDUCATIONAL QUALIFICATIONS

Examination	Year of Passing	Institution	University/ Board	Percentage
M.Sc. Computer Science	2011	Department of Computer Science	Delhi University	86%
B.Sc. (Hons.) Computer Science	2009	IP College	Delhi University	81.35%
Class XII	2006	ASN Sr. Sec. School	CBSE	86.2%
Class X	2004	ASN Sr. Sec. School	CBSE	91.6%

KEY ACHIEVEMENTS

- ➢ Received appreciation from the Project Director, Project Manager and Team Lead for achieving the code coverage target set for our BOIMED module
- ➢ Received SNAP TEAM AWARD for achieving the CI targets for our BOIMED module
- ➢ Received SNAP TEAM AWARD for delivering the RNC Resiliency feature with zero bugs
- ➢ Secured 22nd position in the SCIENCE OPEN MERIT TEST 2004 organized by the Delhi State Science Teacher's Forum
- ➢ Awarded Merit Certificate in the NATIONAL MATHEMATICS OLYMPIAD CONTEST-2004 organized by the Delhi Association of Mathematics Teachers
- ➢ Received Merit Certificate and Scholarship from DELHI SANSKRIT ACADEMY for securing 97% marks in Sanskrit in CBSE Board examination