

**TEK013371** (Network Engineering - 6 + Year)

■ BTech

Highlights

- Having Good Experience of professional work experience in C Programming and Networking development.
- Possessing Strong Programming skills in C, Data Structure.
- Worked on SNMP related in application development.
- Worked on REST Interface and added leaf and container
- Handled various tasks in Brocade related to management modules
- Worked on defects related to crashes and memory leaks.
- Deep understanding of OS concepts specially file system, process management, IPC mechanisms.
- Understanding of Linux module programming and various debugging methodologies.
- Good knowledge of Fabric Services.
- Developed HASH table algorithms for storing data related to parameters.
- Experience in git Source code version control and clear tool.
- Understanding of DHCP configuration protocol and DORA process.
- Having experience in manual testing of SANNAV and WEBEM.

Skills

Primary Skills

- BGP
- OSPF
- IPv4, IPv6
- TCP/IP
- LLDP

Secondary Skills

- DHCP
- STP
- DNS
- GIT

Other Skills

- **Languages** : C , Data Structures , Python(basics) , XML , JSON , YANG
- **Operating systems** : Linux
- **Domain** : Networking , Telecom
- **Netowrking protocols** : DHCP , SNMP , HTTP
- **Software utilities** : Clear Case
- **Webservices** : REST API , Postman , Weblinker , Apache , Curl
- **Network tools** : Wireshark , Tcpdump Netsnmp , MgSoft
- **Debugging tools** : GDB , Valgrind , oprofile

Projects

Project - 1 - IT Industry (13 months)

Role : Network Protocol Engineer

Responsibilities :

- Developed interface which collects incoming parameters and updates the database.
- Developed HASH algorithm for storing the data.
- Handled mapping mechanism for parameters of the CG and Nokia.
- Handled code changes for derived parameters by having some calculations based on the requirements
- Added Neighbour derivatives implementation by which SIB and MeasObjects are updated.

Project - 2 - IT Industry (11 months)

Role : Network Protocol Engineer

Responsibilities :

- Guiding team members on requirements and changes that need to handled.
- Generating the code based on the MIB files
- Verifying the generated code by various SNMP operations (GET , SET , SNMPWALK)
- Preparing the documents related to code generation tool.
- Involved in developing OSPF code
- Performed configuration and troubleshooting of BGP protocol.
- Operational support of routing and switching protocols of BGP and STP.

Project - 3 - IT Industry (12 months)

Role : Network Protocol Development Engineer

Responsibilities :

- Handled code changes.
- Loading of firmware to the SD card and booting KEBA terminal with new firmware
- Adding of screen configurations in configuration file based on new requirements
- Modifying the kernel parameters and inserting kernel modules

Project - 4 - IT Industry (17 months)

Role : Network Protocol Development Engineer

Responsibilities :

- Handled the code changes for backend.
- Added attributes and XML pages as a support.
- Developed unit test case document for changes supported.

- Developed all operations related to CLI.
- Delivered code changes within a time and later there were less code changes for defects in this area.

Project - 5 - IT Industry (26 months)

Role : Network Protocol Development Engineer

Responsibilities :

- Provided LLDP configuration development in CAL layer.
- Developed FCoE configurations for HTML support.
- Developed design and implementation of brocade proprietary MIBS.
- Understanding the customer uses cases and creation of design documentation
- Preparation of implementation write-ups and impacted module analysis
- Code reviewing of peer developers code changes and implementations.
- Design and development of new features in SNMP , HTTP , REST protocols and also integration with GUI interfaces like BNA , webem , SANNav
- Implemented new YANG for REST SNMP support.
- Customizing the UI using Service Template and preparing Use case document.
- Implemented Routing mechanisms and Routing tables using RIP protocol.
- Unit testing and preparing the testcase document , Functional specs

Project - 6 - IT Industry (32 months)

Role : Network Protocol Development Engineer

Responsibilities :

- Conducted manual testing on web-based applications of SANNAV and WEBEM.
- Ensuring functionality , usability , and adherence to specifications.
- Developed and executed comprehensive test plans, resulting in a 20% reduction in postrelease defects.
- Led the implementation of an automated test suite , increasing testing efficiency by 30%.