

SAROSHMA SUNDAR

Network Protocol Developer

WORK EXPERIENCE (3 YRS 8 MTHS – INCL. 10MTHS OF FULL-TIME INTERNSHIP)

THINKPALM TECHNOLOGIES, THIRUVANANTHAPURAM

• Software Engineer (MAY'18 – AUG'19)

Client: A Large Indian Telecommunication Company

❖ SFLOW FEATURE

This is a sampling technology that can be embedded in any network system to characterize and monitor the traffic.

Key Responsibilities:

- Implemented MIB, CLI and low-level generation for SFLOW commands.
- Developed the poller and receiver parts of SFLOW agent

❖ DUAL UNIT STACKING SYSTEM

Active and Standby nodes act a single system with a common shared/individual data plane.

Key Responsibilities:

- Implemented the NPSIM programming for active and standby units based on the parameters.
- Involved in bug fixing of DUS framework in LAG

ARICENT TECHNOLOGIES (presently known as ALTRAN), CHENNAI

• Software Engineer (JAN'16 – APR'18) (Includes 10 months of full-time internship)

Client: A Large Finnish Telecommunication Company, A Large US Computer Manufacturer

❖ SUBGROUP FEATURE – AN ENHANCEMENT IN LACP PROTOCOL

A Subgroup in LAG provides a secure link protection within a LAG

Key Responsibilities:

- Implemented the MIB, CLI command support, low level routines for the subgroup related MIB objects.
- Developed the selection algorithm logic to choose the active subgroup based on the configured selection criteria (weight / priority).

❖ TUNNELING (PORT FORWARDING)

The tunneling of packets in sender side protect the data from PDU attacks and the receiver could retrieve the original packets by de-tunneling the same.

Key Responsibilities:

- Handled NPSIM to support the tunneling of LACP and ISIS PDUs in data plane level.
- Performed unit testing and bug fixing

❖ LAG PORT THRESHOLD IMPLEMENTATION

This feature allows configuration of the behavior, once the number of available links in a LAG falls below or is equal to the specified threshold.

Key Responsibilities:

- Developed flags to raise and clear the defects based on the links attached to the port channel
- Implemented the port threshold actions, timer with respect to the configured threshold value
- Handled events in terms of SNMP trap and syslog messages for the defects logged in the console.

EDUCATION

- Aug 2012 - May 2016 **Bachelor of Technology in Information Technology (CGPA: 9.34/10)**
Thiagarajar College of Engineering, Madurai
(Ranked 29th best engineering college in India by the Ministry of HRD)
- Jun 2011 - Apr 2012 **Class XII in Tamilnadu State Board (Percentage: 94.08%)**
Adarsh Vidya Kendra, Nagercoil
- Jun 2009 - Apr 2010 **Class X in Central Board of Secondary Education (CGPA: 9.2/10)**
Adarsh Vidya Kendra, Nagercoil



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TECHNICAL SKILLS

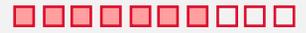
C/C++



Midgen



CLI/SNMP



Linux



GDB



Wireshark/Ethereal



L2 Protocol



ACHIEVEMENTS/INTERESTS

- Consistently ranked in the **top 10%** of the batch till graduation.
- Completed TechGig certified course on Programming Skills C for Engineers.
- One among the **top performers selected by Aricent Technologies** for early internship as a part of final year project.
- Interested in **data analytics** and inference using tools like **SPSS and R**.