Preeti Bhat

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Objective : I am seeking an opportunity as a Scientific Networking Research Assistant to excel in the evolving networking fields by improving my knowledge and interpersonal skills and contributing to the research and development of the organization and my career.

Education

Course	Institution	Year	Percentage/Grade
Master of Science in Telecommunications & internet technologies	FH Technikum Wien Vienna,Austria	Currently pursuing	1.3 (Avg. of 3 sem's) (equi. to GPA 4.6/5)
Bachelor of Engineering in Electrical and Electronics Engineering	Sir.M.Vishveshwarayya Institute of Technology, Bangalore, India	2016	83.66% (Distinction)
Pre-University (Grade 12)	BNJC Dandeli, India	2012	85.8% (Distinction)

Fields of Interest

- Software-defined Networking (SDN) and network virtualisation (NSX)
- Load balancing and Network infrastructure
- Automation in networking domain

Experience

- Dec'2016 - Jan' 2020 (Three years and two months): Worked as a **Software Analyst** at Accenture.
- Nov'2021 - Present (Five months): Working as an **intern** at **Business VMware unit - SDN unit** of **evoila Gmbh** (https://www.evoila.de).

Relevant courses and Certifications

- **Online certification courses offered by VMware:**
  - *Completed Courses:*
    * VMware Data Center Virtualization Fundamentals.
    * VMware vSphere: Install, Configure, Manage [V7].
    * vSphere Fundamentals Learning Plan
    * VMware vSphere 7 - Lighting Lab
    * Hands-on lab on NSX-T networking fundamentals.
  - *Currently pursuing courses:*
    * Hands-on lab on VMware NSX-T distributed firewall lighting lab.
    * Hands-on lab on VMware NSX-T Operations Lightning Lab
- **Relevant master's courses:** IP network platforms and planning, Communication networks and internet, TCP/IP networking with Linux, IP routing and network management, Internet applications and services, current technologies in telecommunication and internet, IOT, Windows servers, etc.

Technical skills

- Basic knowledge of installing and configuring of ESXi hosts, deploying and configuring vCenter Server Appliance, creating virtual machines and virtual networks, configuring and managing virtual storage and data stores, creating and managing vSphere services like vMotion, vSphere HA, and vSphere DRS.
- Hands-on experience in NSX installation.
- Hands-on experience in creating virtual machines using Hyper-V, Oracle virtual box and VMWare.

- Sound knowledge of OSI model, TCP/IP protocol, UDP, IPv4 and IPv6.
- Good knowledge of application-level protocols such as DNS, DHCP and HTTP
- Understanding and hands-on experience in routing protocols such as OSPF, RIPV2, EIGRP, static and default routing protocols,BGP using GNS3 and Cisco Packet Tracer.
- Well versed with GNS3, Cisco Packet tracer, Wireshark tools for network labs.
- Basic knowledge on network scanning tools such as Nmap and Snort.
- Knowledge of switching, Network Address Translation (NAT), ARP, SNMP, MPLS, iptables.
- Basic knowledge on NFtables.
- Understanding of Windows deployment service and MDT for ADDS and basic knowledge of power-shell scripting
- Worked in different linux operating systems such as Debian, Ubuntu, Centos, Vyos, etc. and elementary knowledge of Linux coding.
- Enhancement, testing and implementation of software applications on various object-oriented languages such as VBA, VB6, C#, Java .
- Basic knowledge of SQL on MSSQL and ACCESS database.

Projects

Verifying Load balancer using nftables and High availability of it using VRRP   *Master's thesis*
Supervisor: Prof. Thomas Zeitlhofer, FH Technikum Wien   *Sep. 2021 - Present*
Load balancing is an effective way of distributing the incoming network traffic among the backend servers.The approaches used for Load balancers (LBs) based on the Linux kernel involve Linux Virtual Servers (LVS), iptables. Nftables is also an alternative approach for LBs. However,it is less popular even though it outperforms the iptables. Therefore, the aim of this project is to design LB using nftables and introduce high availability of LB using VRRP protocol. In the project, I designed servers and a client in the Oracle virtual box. I also designed LBs using nftable rulesets that uses direct server return (DSR) method and hash functions. Currently, I am implementing VRRP protocol using FRR Suite to ensure high availability of LB.

Client: ITV Ergo, United Kingdom(UK)   *Place: Bangalore, India*
Software analyst   *Dec. 2016 - Jan. 2020*
- Resolved incidents (issues) and problem tickets with all severities related to advertising applications.
- Analysis and debug of the advertising applications (spot bookings) during migration from VB6 to .Net.
- **Project 1 & 2: Eddie server and Eddie address applications.**
  - Worked closely with clients and was responsible for the requirement gathering and, enhancement and development of the application in windows forms in .Net Framework.
  - Worked on modules implementing the business logic in C# and API.
  - Unit testing.
- **Project 3 & 4: Budgeting tool and Costbook Applications**
  - Responsible for the requirement gathering and,development of the Budgeting tool application in Microsoft excel using VBA as a code behind language.
  - Providing the standard workbooks with variety of spreadsheets that worked as a tool for users to maintain budgets in the budgeting tool application, and the recording and forecasting cost for projects in the costbook application, respectively.
  - Remote support and troubleshooting issues.
  - Unit testing.

Awards and scholastic achievements

- Awarded as the best employee in Accenture during my employment.
- Secured 4th rank in electrical and electronics engineering among 219 engineering colleges that are affiliated to Vishweshwarayya Technical University.
- Awarded as the best student in my Bachelor of Engineering.

Personal skills

- Ability to learn and adapt skills quickly.
- Excellent communication and interpersonal skills.
- Flexibility, independent, precise and reliable working style.
- Excellent team player.
- Languages known : English, German (A2 beginner), Kannada, Hindi, Telugu and Sanskrit.