NAINA CHATURVEDI

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<u>Objective</u>: Looking for a challenging opportunity as an internship for Fall 2016/Spring 2017 and a full time opportunity from May 2017. I'm a passionate programmer interested in creating new, cool and challenging things.

I'm interested in successful design, development, implementation, troubleshooting and configuration in the field of **computer networks, software defined networking** and **software development**. I would be completing the Master's degree at University of Houston Main Campus by **May, 2017**.

Research Paper Published in International Conference in International Journal of Computer Applications, New York

• Prof.Mrs.P.D.Kale, Naina Chaturvedi, Neha Vishwakarma, Priyadarshni Sivakumaran, *Trace File Analysis in Fibre Channel over Ethernet Environment: A Step Ahead.* ISBN: 9739380867303.

Summer 2016 Research(Intern) Projects, Ideas and XSEDE boot camp:

1. Implemented MPLS L3 VPN and MP-iBGP

Areas covered: MPLS, GNS3, VPN and iBGP.

2. Implemented and research: Software Defined Networks in MPLS networks and BGP in SDN.

Areas Covered: SDN, MPLS, Linux, Python.

3. Ongoing Research: Software Defined Networks in Raspberry Pi(sensor network)

Areas covered: SDN, Linux, Raspberry Pi.

- 4. Simulated lab and research: Wi-Fi Localization and positioning in ISS
- 5. Attending XSEDE HPC summer boot camp'2016 [June 14-17th '2016] conducted by XSEDE along with the Pittsburgh Super-Computing Center and the Center for Advanced Computing and Data Systems [CACDS]

<u>Implemented Individual Research Project</u>

1. Network Management in Software defined Networks

Areas covered: Software Defined Networking, RYU controller, Linux, Python as programming language, Wireshark, Mininet.

- 2. Implemented a cross communication between various routing protocols in GNS3 and analyzed the performance Areas Covered: Routing protocols, GNS3, Wireshark, Cisco IOS.
- 3. Implemented a Hadoop Map reduce program using Python

Areas covered: Hadoop, Linux.

4. Network Traffic Analysis in Storage Area Network and Linux Kernel Compilation

Areas Covered: Fibre Channel Over Ethernet, SAN, Wireshark, Linux, Python.

- 5. CISCO Packet tracer and IPv6 echo client/server and IPv4 address conversion project
- •Implemented a small office network, routing protocols like RIP, OSPF, EIGRP, BGP, security features using VLAN.
- •Implemented an IPv6 echo client/server using Python and a program to convert an IPv4 address to different formats.
- 6. Courses pursuing: a. Computer Networks from Stanford University b. Big Data from University of California, San Diego
- c. Python Programming by University of Michigan d. Cisco Certified Network Associate (CCNA) Routing and Switching.

Education, Work Experience and Achievements:

- Research Assistant: University of Houston Main Campus, USA August'15-Present. GPA: 3.9
- College Topper GPA: 3.9 Bachelor of Engineering, Computer Engineering completed in MAY-2012, Pune University, INDIA
- Founder, Bit World, June 2016
- Software developer, Tata Consultancy Services (Sep'12-Jun'15): Worked for two major banks (Royal Bank of Scotland and Pittsburg National Corporation)
- Selected for Business Management at Shailesh J. Mehta School of Management by IIT Bombay, 2011.
- President of Computer Engineering Student Association (CESA). 1st Prize for Bournvita Quiz, Cadbury India, ZEE TV.

Computer Skills, Specialties and Research Area's of Interest

- Programming Languages: Java and Python (Expertise in Python).
- Operating Systems: Linux (Fedora 14 and 8, Ubuntu 14.04LTS), Microsoft Windows.
- Networking:
 - Technologies/Research Areas of interest: Python Programming, Socket Programming, Fibre Channel over Ethernet,
 Storage Area Network, Software Defined Networking, Mobile Cloud, Linux Kernel Compilation, Troubleshooting.
 - Switching: VLAN, VTP, STP, ARP Routing Protocols: Static, RIP, OSPF, EIGRP, BGP. Transport Layer: TCP/IP, UDP
 - Application layer: HTTP, DHCP, DNS, FTP, SIP, SMTP, SNMP, Telnet, TFTP and Network Layer: ICMP, IPv4, IPv6, NAT
 - Networking Tools: GNS3,Nmap, Wireshark, Cisco Packet tracer, Linux Tools (mtr, tshark, iperf), tcpdump.

References

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