Yagyawalcya Sen

yagyawas@uci.edu | +1(949) 992-7033 | Irvine, CA 92612, US | LinkedIn-Yagyawalcya

EDUCATION

University of California, Irvine **California, US**
M.S. in Computer Science (Networked Systems) *Sept 2021 – Present*
- GPA – 3.92/4.00

National Institute of Technology, Tiruchirappalli **Tamil Nadu, India**
B. Tech in Electronics and Communication *July 2010 - May 2014*
- GPA – 8.67/10.00

TECHNICAL SKILLS

- Languages/OS: Python, Linux, C++, Object Oriented Programming
- Networks: TCP, IPv4, IPv6, DHCP, DNS, OSPF, BGP, Vlan, HSRP, SDN, IPfix, sFlow
- Virtualization: KVM, VMware - ESXi, Vcenter, vSphere
- Tools: Ixia, Spirent, Wireshark, Mininet

WORK EXPERIENCE

Meta (Facebook) **CA, USA**
Software Engineer Intern (Backbone Network) *Jun 2022 - Sept 2022*
- Designed and developed tool to automate ports assignment for large scale network deployments, which improved the network deployment time by 60% and reduced the error rate by 40%.
- Redesigned the logging and error classification workflow of the tool, which improved the debugging efficiency by 30%.
- Maintained 100% unit test coverage while building the tool to improve the reliability.

Arista Networks **Bangalore, India**
Software Test Engineer *Nov 2020 - Aug 2021*
- Designed end to end network topologies with real time TCP and UDP traffic steams and validated Arista Cloud – EOS software to improve the performance and stability of the product by 40%.
- Drove customer requirement discussions, analysed test requirements, developed and executed test plans to meet customer requirements.
- Identified and fixed critical bugs before the mass rollout of the features, which improved the products reliability by 30%.

Amazon **Bangalore, India**
Network Engineer *Oct 2018 - Nov 2020*
- Worked on large scale network migration and high severity network troubleshooting on Amazon global enterprise Network to mitigate and root cause the large scale network outages.
- Developed the tool to automate large scale network migrations, which improved the migration efficiency by 50%

Cisco Systems **Bangalore, India**
Network Engineer *July 2014 - Oct 2018*
- Designed solution validation lab network and validated new design solutions for 6 large scale enterprises and ISPs across the globe.
- Responsible for the deployment of 200k network sites for Reliance Jio – the biggest Internet Service Provider in India.

ACADEMIC PROJECTS

Search Engine and Web Crawler *Mar 2022 - May 2022*
- Developed web crawler to crawl the all the webpages in the uci.edu domain and built a search engine which processes the user query against 250k web documents and provides the top 10 most relevant web documents within 100ms.

Dynamic timer interrupt algorithm for XV6 UNIX-like Operating Systems *Jan 2022 - Mar 2022*
- Developed and implemented an algorithm to adaptively adjust the time interrupt duration on XV6-unix like operating systems, which achieved 20% better performance and power consumption compared to the default algorithm.

CERTIFICATIONS

- CCIE R & S Written (Cisco Certified Internet Expert), CCNP, CCNA, VCP - DCV6 (VMware Certified Professional - Datacentre Virtualisation)