Murali Krishna Sai Sriram

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WORK EXPERIENCE

Arista Networks   **Santa Clara, California**
Software Engineer Intern   (C++ , Python and Jericho)   June 2022 –Sept.2022
- Built a new backend service from scratch that generates CAPI model for CLI commands. Fixed Egress Queue counter feature bugs. All these changes were merged to EOS (Arista Switch Operating System).

Cisco Systems   **Bangalore, India**
Software Engineer (Python, Django, XML,Yang, Linux and Docker)   Sept. 2016 – Sept. 2021
- Developed service packages (L2/L3 VPNs) for customers, which reduced service deployment time by 40%.
- Led a team in designing, and delivery of Software-defined Network LSP Automation Solutions for various Service Provider customers across globe, solution involved **developing backend services** and a **web application**.
- Solutions developed helped customers to do Network Optimization and Traffic Engineering, which helped to reduce the network downtime by 60% and further helped to meet their customer SLA's.
- Managed production and lab environments.

Broadcom Limited   **Bangalore, India**
Software Engineer Intern   (C, Python and Visual Basic)   July 2015 – June 2016
- Automated post-silicon validation tests using python and visual basic which brought down manual testing time by 65%.

UC Irvine Donald Bren School of Information and Computer Sciences   **Irvine, California**
Graduate Teaching Assistant   Sept. 2021 – March 2023
- Teaching and Instructing undergraduate students for the courses Intro to Software Engineering (INF 43) and SW Test&QUAL Assur(INF 115).

TECHNICAL SKILLS

- Programming Languages - Python, C/C++ (object-oriented design), Java.
- Frameworks and OS - REST, Django, Linux (RedHat and Centos)
- Tools and Technologies - Git, Vim, SQL, Yang, JavaScript, HTML, VMware ESXi, Docker, Kubernetes, AWS(Beginner).
- Network Protocols - OSPF, BGP, TCP/IP, SNMP and NETCONF.
- Hardware Protocols - USB, SPI, UART, and I2C.
- System level and Network Troubleshooting, Software debugging, and gdb.

EDUCATION

University of California, Irvine
M.S. in Computer Science (Networked Systems)   June 2023
- Relevant courses: Design and Analysis of Algorithms(DSA), Data Structures, Parallel Computing, Distributed Systems, Operating Systems(OS) and Computer Architecture.

Birla Institute of Technology and Science, Pilani, India
B.E. (Hons) in Electronics and Communication and M.Sc. (Hons) in Economics   June 2016

CERTIFICATIONS

- Cisco Certified Network Associate(R&S)
- Cisco Certified DevNet Associate
- Consultant Development Program (Cisco CDP-1)

ACADEMIC PROJECTS

Search Engine and Web Crawler
- Developed web crawler to crawl 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.

RESEARCH PUBLICATIONS

- Paper publication acceptance - "Implementing S-Transform in Continuous-Time Using Non Linear Sequence Transformation", IEEE 58th Int'l Midwest Symposium on Circuits & Systems August 2-5, 2015 Fort Collins, Colorado USA.