

JAYACHANDRAN JESSE JOHN

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PRINCIPAL SOFTWARE DEVELOPMENT ENGINEER

Principal Software Development Engineer with MS in Telecom Eng Tech. A strong team player with experience working in a collaborative team environment. Extremely hardworking and exhibit an ever-enduring enthusiasm and passion towards the work at hand. Consistently delivered above and beyond on any tasks undertaken Possess a strong expertise in usage of Python as a programming language for software development and automation. Experience working in the Cloud Infrastructure network virtualization technology, SDN, Kubernetes, Docker Containers. Acquired skill set in the Data Analytics space and would like to see myself using concepts of data analytics, machine learning in cloud infrastructure and network virtualization space. Technical skills include:

- **Cloud Virtualization technologies:** Docker Containers, Kubernetes, OpenStack, Sonus NaasIQ, IBM SDN VE
- **Data Analytics & Virtualization:** UC Berkeley Professional Certification (Jan – July 2018)
- **Operating Systems:** RHEL KVM, VMware ESX, Linux, Cisco IOS, Nexus OS (NX OS), Windows
- **Certification:** Python, Linux in a Red hat Environment I & II, Mirantis Certified Administrator for OpenStack Professional Level (MCA200) – License 200-160633
- **Scripting/Programming Language:** Python, TCL
- **Software Tools:** Eclipse IDE platform, SVN, Perforce
- **N/W Protocols:** L2 Protocols(RSTP, MSTP), L3 Protocols (OSPF, EIGRP, BGP), OpenFlow
- **Hardware:** Oracle Private Cloud Appliance, Cisco MDS, Nexus Data Center Switches. Catalyst Switches, IBM Systems Networking Switches
- **Test Equipments:** Ixia Network Testing tools, IxANVL, Spirent SmartBits, Ostinato

EXPERIENCE:

ORACLE, Redwood City, CA

Principal Member of Technical Staff

01/2017-Present

- Principal Software Development Engineer in Oracle's Private Cloud Appliance Team.
- Responsible for Network Architecture Design and Implementation for Oracle PCA Engineered System.
- Working on various networking data center switches such as Arista, Juniper QFX and Cisco Nexus switches.
- Kubernetes & Docker Container Technology

SONUS NETWORKS, Fremont, CA

Principal Engineer

04/2015- 12/2016

- Worked on integration of Skype for Business SDN Manager with Vellos/NaasIQ SDN Controller (SfB UC API Access)
- Worked on SDN Technology for the Sonus NaasIQ/VellIOS Product
- Responsible for complete end-to-end successful release for a critical feature - Fault Tolerant/High Availability for Sonus NaasIQ product. This involved defining/writing Functional test specification considering the various customer deployment scenarios, understanding the underlying software architecture for the feature implementation. Successful execution of the feature worked upon within software release cycle time frame and resolving the critical issues found by working with the development team to ensure a stable and high quality software feature release
- Developed an automation frame work from ground up using Python standard libraries such as Unit test and implemented advanced logging mechanism using Python advanced dict config log module. Also implemented custom libraries for the purpose of Automation of Test Suites/Test Cases. This reduced time of software development release cycle by reducing the testing timeframe for the various software features introduced.

- Scalability and Performance using test tools such as mininet for simulating number of switches and traffic flows.
- Farsight App feature testing, running on Splunk to gather the network statistical data for the NaasIQ product. Openflow enabled Switch Functionality testing.
- Providing technical guidance and assistance with writing of test plan and test specification to team members

IBM, San Jose, CA

Staff Software Engineer

08/2012- 04/2015

- Worked in IBM Software Defined/Cloud Networking team;
- Worked on SDN Automation using Python for SDN VE Controller using REST API and ML2 Plugin integration for Openstack;
- Worked upon IBM's System Networking Products Top of Rack switches G8000, G8052, G8124E, G8264, G8264T, G8316, IBM Flex system Fabric EN4093 and EN4093 10Gb Scalable Switches;
- Automation of IxANVLConformance testing for L2, L3 and Multicast protocols;
- Finding of critical bugs for L2, L3 and Multicast protocols and resolving them by closely working along with the software developers.
- Designing and developing test specifications and test cases to verify functional requirements for SDN platforms and REST API and CLI interface(s) utilizing Tcl/Tk, Python and Linux shell scripts;
- Executing tests to verify software and hardware functionalities of SDN platform controllers, control, and data plane components;
- Designing, building, maintaining, and troubleshooting system test platforms for L2/L3 networking components;
- Designing, building, maintaining, and troubleshooting virtualization platforms utilizing Openstack, VMware, and KVM;
- Creating and executing manual and automated test scripts for verifying SDN control plane and data plane functionalities utilizing Ixia Test suites and Linux test tools;

CISCO SYSTEMS INC, San Jose, CA

Hardware Engineer

07/2007- 12/2011

- Significant contribution providing critical design verification for highly successful Cisco Data Center products, such as MDS 9xxx series products (MDS 9500 / MDS 9100 /MDS 9222i) , Nexus 5K/2K /3K series products (Nexus 5020 / 5010 / 3064/ 3048/ 3016/ 2232/ 2248) and Cat 6K/4K/3K/2K Switches that have generated revenue surpassing \$1B in revenue
- Extensive knowledge on L2 Switching Protocols VLAN, STP, MSTP, RSTP, VTP.
- TCP/IP, Routing Protocols (RIP, OSPF, BGP, EIGRP)
- Experience handling N/W traffic equipment such as SPIRENT, SmartBits, IXIA, Agilent SAN tester
- Created Test Plans, Test Procedure, Formal Test Reports for the purpose of feature testing, system testing. Bug tracking and report generation for software features & enhancements parametrical measurements and Automation testing.
- Experience working upon Cisco IOS, Nexus OS (for Data Center Switches) Software. Configuring Cisco Data Center MDS 9xxx , Nexus 5K/2K, Cat 6K/4K series switches for the purpose of system level Software, physical layer testing.
- Solid knowledge of IEEE Gigabit Ethernet, Fiber Channel ANSI, TCP/IP Protocol standards and specifications.

- Work closely with cross-functional development engineering team, understanding related product architecture, defining specifications for emerging technology, and resolving critical software (NX OS or Cisco IOS) issues found during early stage of product development.
- Received Cisco Achievement Performance Award for meeting critical deadline for emerging technology project. The project involved debugging software and hardware related issues and working closely with development engineers
- Designing and developing test specifications and test cases to verify functional and capacity requirements for Data Center grade switches employing 40G/10G/1G Fiber SFP and copper interfaces.

PAYCHEX INC, Rochester, New York

Telecommunications Co-op

08/2006-02/2007

- Supported incoming call-groups and automatic call distribution agents to troubleshoot telecommunication issues
- Supported moves, additions, or changes to order activity and dialing into the telephone systems to update programming, pull reports, and make miscellaneous changes.
- Interacted with vendors regarding orders, problem solving and worked with end-user to resolve questions and concerns.
- Gained practical, hands-on learning experience in the Business Continuity Department.

ROCHESTER INSTITUTE OF TECHNOLOGY, Rochester, New York

Computer Lab Assistant, Distributed Support Services

03/2006- 05/2007

- Provided assistance and support for printers, computers, and other equipment to student, faculty and staff
- Oversaw various computer labs located in the RIT campus with regards to equipment maintenance, trouble shooting and reporting equipment failure.

EDUCATION

Data Analytics and Virtualization, Professional Certification Program

UC Berkeley Extension, Jan - July 2018

- Python Data Analytics (Python, APIs, JSON, Numpy, Pandas, Matplotlib, Beautiful Soup, Tweepy)
- Excel (Microsoft Excel, VBA Script, Statistics Modelling)
- Databases (SQL, NoSQL, MySQL, MongoDB)
- Web Visualization (HTML, CSS, Javascript, AJAX, D3, Leaflet)
- Advanced Topics (Tableau, Hadoop & Machine Learning)

Master of Science, Telecommunication Engineering Technology, 2008

Rochester Institute of Technology, Rochester, NY

GPA: 3.67/4.00

Honors: RIT & Redcom Laboratories Scholarship Award and International Student Scholarship Award

Relevant Courses:

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|--------------------------------|------------------------------|--------------------------------|
| - Fiber Optic Telecom Tech | - Wireless Communications | - Next Generation Network |
| - Operating System for Telecom | - Telecom Project Management | - Fiber Optic Telecom Networks |
| - Principles of Telecom N/W | - Telecom N/W Protocols | |

Graduate Project: Research project on Fiber to the Home technology (FTTH). The project involved analysis of various forms of FTTH architectures such as BPON, GPON and EPON and FTTH's advantages over other access technologies such as cable, VDSL, etc. Project described various components in FTTH technology such as Fiber, optical networking units, optical line terminals, and its deployment. Project also involved describing advantages offered by FTTH in terms of operational expense and capital expense over other access technologies such as cable, VDSL, etc.

Bachelor of Science, Electronics & Telecommunication Engineering, 2003

Atharva College of Engineering, Mumbai University, India

ACTIVITIES: Playing tennis and soccer (Placed first in the intercollegiate football competition at the Undergrad level), watching documentaries, Music (Passed with distinction in Grades I & II at the Trinity College of Music, London)