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 **VENKAT RAO YANAMANDALA**

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**Overview:**

Self-motivated Developer and strong footprint in Telecom domain. Passionate coder with penchant for developing complex NMS applications that factor in unique demands for accessibility, reachability, and security. Organized approach to meet multiple, concurrent deadlines.

**Professional Summary:**

* Over **10+ years** of work experience in Network Management System Domain, entire Software lifecycle.
* Solid foundation in **Data structures**, **Algorithms**, and software design.
* Excellent troubleshooting/debugging skills.
* Well versed with **Java** and **Python**.
* Having sound knowledge on Python scripting and automation.
* Solid understanding of **SNMP, RESTCONF,** and **NETCONF** protocols.
* Skilled in **Test/Behaviour** Driven Development and Agile Development.
* Good knowledge on Containerization technologies **Docker**.
* Solid understanding of Telecom domain (**NMS**/**EMS**/**FCAPS**)
* Sound understanding of object-oriented design and programming.
* Expertise on integrating customer OSS with NMS and ensuring interoperability of the OSS and NMS.
* Proficiency in Java **multi-threaded** and **concurrent** programming.
* Comfortable making key decisions for team to move products efficiently through pre-production and production timelines.
* Good knowledge of agile methodology and frameworks like Scrum and Kanban.
* Good knowledge and experience on automation using Jenkins CI/CD pipelines

**Academic Excellence:**

* Master of Computer Applications from Keshav Memorial Institute of Technology, Narayanaguda (JNTU, Hyderabad) with an aggregate of **80%** (2008-2011).

**Certifications:**

* Sun Certified Java Programmer 5.0
* SAFe 4.5 Product Owner/Product Manager (POPM)
* SAFe 4.5 Certified Practitioner

**Professional Experience**

* Working as a Senior Technical Lead in Altran since April 2020 to till date **(Acquisition Adtran Team).**
* Worked as a Staff Engineer in Adtran Networks India Pvt LTD from October 2015 to March 2020 **(Acquisition Teleparadigm Team).**
* Worked as a Software Engineer in Teleparadigm Networks Ltd from July 2011 to September 2015.
* Worked as an intern in Teleparadigm Networks Ltd from January 2011 to June 2011.

**Awards**

* **“ABCD – 2016”** for Project Lion contribution from Adtran.
* Runner up for **“Hack-a-thon – 2020”**

**Project Details:**

[**MOSAIC - CP** (MOSAIC Cloud Platform - MCP)](https://www.adtran.com/index.php/mosaic-home) **[October - 2018 to till date]**

**Environment:** Python, Django, Docker, YANG, RESTCONF and Jenkins CI pipeline.

**Roles:** Worked as **Product Owner** and **developer**

**Responsibilities:**

* Mentor new joinee on MCP product and on-board them
* Build POCs as part of feature analysis.
* Involved in designing of Project Lion architecture.
* Implemented XML-JSON adapter to integrate with customer OSS.
* Written docker file to prepare docker image for XML-JSON adapter
* Clear understanding of internal micro service architecture and communication between the micro services.
* Experimented to deploy MCP docker containers in Kubernetes.
* Exposure to Elastic query language and defined queries for various search features.
* Good understanding of the plug-in architecture in MCP and implemented functionality in Plugins to support provisioning.
* Analysed and identified numerous problems (Memory) in Jobs workflow for scaling issues.
* Understood MCP Orchestration object very well and implemented profiles for various use cases.
* Defined PIN scripts for various Alarms processing support.
* Enhanced Marshal Plugin to support “Parse-Pattern”.
* Understood various design patterns in MCP.
* Understood the MCP Orchestration principle thoroughly and given training sessions to the Team.
* Documented the feature analysis, workflows, and dev level documentation in confluence.
* Defined profiles for TA5K and NetVanta series devices

[**AOE** (**ADTRAN** NMS)](https://portal.adtran.com/web/page/portal/Adtran/group/3918) [July -2011 to December 2018]

**Roles:** Individual contributor.

**Environment**: Adobe Flex (GUI), Java, MYSQL, Orient DB and Hibernate.

**Responsibilities:**

* Converted Single app loading application to Tab based one which helps customer to perform multitasking.
* Coordinated with two teams and resolved various issues in Software Upgrade application and made it to release.
* Played crucial role in adopting **Orient DB(NoSQL)** for Topologies.
* Implemented efficient algorithms for ERPS Ring and Linear Chain topologies.
* Analysed and fixed customer issues with the help of customer logs.
* In-depth knowledge on customer logs analysis and providing hot fixes for customer issues.
* Addressed handful of customer critical issues found in the field.
* Troubleshooting product issues found in System Integration Testing and Customer deployments.
* Analysed heap dumps from customers to understand the RC for Out of Memory issues.
* Implemented SOAP webservices to support customer OSS.
* Involved in integration of customer OSS with AOE.
* Supported service provisioning for business ethernet services.
* Prepared workflow and dev level documents for the implemented features.
* Identified the actual root cause and fixed a customer issue which creating lot of orphan entries in DB and causing to crash.
* Optimized ONT Auto Upgrade application to scale up **5 lakh** ONTs from **30K**
* Took the advantage of multithreading concept to execute ONT upgrade in parallel (Buckets).
* Mentor new Team members on **AOE** product and helped them for smooth on-boarding.