SATYA DILLIKAR

Senior Software Architect - Software Development

Contact

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Education

M. Tech -
Computer Science & Engineering
1998-06 - 1999-12
INDIAN INSTITUTE of TECHNOLOGY, IIT - Madras, India

B. Tech -
Computer Science & Engineering
1994-04 - 1998-04
Osmania University
Hyderabad, India

Summary

◊ Hands-on Software Architect with 20+years of experience in designing, developing, and delivering distributed enterprise-class mission critical software products with a massive customer base.

◊ Thorough understanding of distributed technologies, private & public cloud technologies, data structures and algorithms.

◊ Purpose-driven professional active in engaging, and coaching other engineers.

◊ Innovative, results-oriented technical leader highly effective at combining technical vision with business insights and creating software architectures, roadmap, and designs.

◊ Excellent decision-making skills with the ability to balance conflicting interests in a complex and fast-paced environment

◊ Demonstrates clear vision for architecture design and great communication skills to articulate that to all levels of stakeholders

◊ Demonstrates agile practices, test-driven development, and continuous delivery. Works in a highly collaborative fashion with global teams.

◊ Master's Degree in Computer Science& Eng. From India Premier Institute (IIT-Madras) & Gold Medalist.

◊ Quick learner, inherently curious and a lifelong learner

Work History

2017-06 - Current

Senior Software Architect

VMware, Palo Alto, CA

- Built **AWS Quick Starts** for **VMware Tanzu Application Platform (TAP)**. TAP is an application-aware platform based on Kubernetes. Reduce hundreds of manual procedures and multiple weeks of work to a few steps with a single click & in hours.

- Architected **Continuous Validation Pipeline** in the cloud for ISV Partners Kubernetes-based Solutions. Complete autonomous Validation self-service for ISV Partners to publish Modern Apps on **VMware Marketplace**

Skills

Microservices, RESTful APIs, SaaS

Very Good

LXC Containers, Dockers, Kubernetes

Very Good

VMware vSphere, NSX-T, Tanzu

Very Good

Distributed Systems & Design

Very Good

Public clouds – AWS, Azure & GCP

Very Good

Java, Angular, React, NodeJS

OK

Coaching

Very Good

C, C++, Perl

Good

Golang, and Python

Good

Layer 2/3 Networking Protocols

Very Good

- Active contributor for open-source Bitnami project Kubeapps. **Kubeapps** is a web-based Kubernetes App for deploying and managing applications in Kubernetes clusters.
- Transformed Partner Products/Solutions Certification from On-Prem to the Cloud & as a **SaaS** offering. In this journey, reducing Partners resources investments from 6 months to a few hours
- Created multiple VMware Partner Certification use cases for VMware NSX-v/NSX-T network virtualization products, and successfully integrated the number of Partners solutions & lists on **VMware Compatibility Guide** (VCG)

| 2016-02 - 2017-06 | **Principal Software Engineer** |

Brocade Communications, San Jose, CA

- Design and develop advanced Control Plane applications like Dual-Homing (MCT – Multi-Chassis Trunk), BGP/EVPN Control Plane, VPLS & High Availability Solutions for Brocade SLX-OS (fully virtualized next-generation Linux-based operating system). These flagship features helped increase adaptation of Brocade SLX-OS with large financial enterprise customers.

| 2013-09 - 2016-02 | **Principal Software Engineer** |

Ciena Corp, San Jose, CA

- Designed and developed advanced Ethernet features like Flexible VLAN Tag manipulations on PE (Provider Edge) Nodes; IP and MPLS High Availability using Graceful-Restart Protocols for Ciena's service-aware Operating System (SAOS) for Packet Networking and Converged Packet Optical platforms
- MPLS Tunnels & L2VPN /Pseudo wire Scale Improvements from few hundred to 8000+. This helped to migrate several customers from legacy tunneling technologies to MPLS Core.

Accomplishments

VMware VES Award

Motorola BRAVO award & PATENT for new P2MP CSPF Algorithm.

Broadcom "Excellent Technical Leadership" Award

Gold Medalist in B. Tech

Relevant Experiences

Technical Paper: VMware cloud-hosted environment for developers and partners

Technical Paper: Partner Enablement and Certification Validation Services on VMware Cloud on AWS

Technical Paper: Efficient and Cost-effective Modern Apps (with Kubernetes) CI/CD pipeline approach for Partner Ecosystem SaaS Services

Revenue generating iOS/Android Mobile Community **App**

An **IoT** application to remotely control a switch from a Mobile App.

2010-05 - 2013-09

Technical Leader

Cisco Systems, Inc., San Jose, CA

- Designed and developed advanced Ethernet features like virtual port-channeling Virtual Port-Channeling(vPC) for Nexus OS for Data Center Product Line (N7000)
- Improved vPC Scale to 512 vPCs & achieved zero traffic loss convergence on various point failures
- Design and develop Open-Flow and Cisco ONE-P applications on Nexus OS (N3000). Developed custom SDN-based solution to deploy as Infrastructure-as-a-Service.

2004-12 - 2010-05

Sr. Staff Engineer

Broadcom, Raleigh, NC

- Designed and developed user-space applications for entire **L3-Multicast Routing Protocols Suite,** i.e., IETF Drafts/RFC (PIM-SM, PIM-DM, IGMP, MLD) for LVL7 Protocol Stack from ground-up.
- Build systems using LVL7 Protocols, Stack & Broadcom ASICs for Systems Integrations Customers like DELL, NETGEAR, and DLINK.

2000-03 - 2004-12

Software Engineer

India

Various Software Development Engineering roles at LVL7 Systems (acquired by Broadcom)

Netplane Systems (acquired by Motorola), &

Cisco Systems