Manoj Gupta

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Summary

As a Distinguished Engineer with hands-on approach, I specialize in developing cloud native solutions on public cloud infrasturcture. My experience includes 15+ patents and successfully leading teams to deliver complex products from concept to production. I posses expertize in the domains of wireless networking, linux kernel, device driver and distributed computing.

At Cisco systems, I delivered 802.11ac Wave-2 APs and innovative Intelligent Capture analytics solution, each of which received Cisco Pioneer Award. At Aruba networks, I delivered industry's first enterprise grade 11ac AP which became the most successful product in Aruba history. I successfully led the effort to transition from single chipset vendor to multi chipset vendor strategy.

I hold a B.Tech in Electronics and Communication Engineering from National Institute of Technology Jalandhar and a Masters in Computer Science from University of Texas at Arlington.

Experience

Distinguished Engineer

Juniper Networks

Dec 2020 - Present (2 years 7 months)

● Responsible for architecture, design and development of microservices based cloud backend solutions for AI Driven Enterprise BU.

● Developing Network Access Control (NAC) as muti-tenant cloud native SasS solution. It provides authentication, autherization and policing of wired and wireless devices with low latency and high availability. Server to server integration with various IDPs (Azure, Okta) and MDM providers (Intune, Jamf) is done to support enterprise customers.

● Designed and developed WAN assurance solution for SDWAN (128T) routers, which include device onboarding, configuration management, image upgrade, device outage detection, support logs upload, packet capture and telemetry collection.

Principal Engineer

Cisco

May 2015 - Dec 2020 (5 years 8 months)

● Responsible for architecture, design and development of Cisco indoor and outdoor wireless access point software which generate $2B+ annual revenues.

● Designed and developed Wireless Intelligent Packet Capture anlaytics solution, which won Cisco's Pioneer Award in Product Innovation Category. Integrated solution with Cisco DNAC which sold ~220K Units of APs in 1 year, 5-Quarter of Growth and 5K unique customer for Analytics platform.

● Designed and developed programmable API framework using open source software stack for device telemetry and analytics. It served as building block for various projects.

● Defined the architecture for the next generation Cloud Managed Access Point using programmable API framework.

● Designed and developed programmable rule-based engine for wireless intrusion and prevention system using programmable API framework.

● Lead the development of industry leading 802.11ac Wave-2 APs, which won Cisco's Pioneer award in Product innovation category.

Distinguished Engineer
HPE Aruba Networking

Dec 2010 - May 2015 (4 years 6 months)

● Responsible for software deveopment of Aruba Indoor and outdoor Access points.

● Introduced Broadcom WiFi driver in Aruba access point and successfully led the team to deliver industry's first enterprise-class 802.11ac AP (AP-225 series), which became the most successful product in Aruba history.

● As a Lead developer worked from prototyping to production. Integrated Broadcom driver to Aruba OS, designed and implemented Aruba features such as data path changes, security modes, configuration, serviceability etc.

● Recognized for the contribution as Employee of the Quarter in 2012, 2013 and 2014

Principal Staff Engineer
Meru Networks

Jul 2006 - Dec 2010 (4 years 6 months)

● Member of the access point device driver team to work on next generation access point feature design and implementation.

● Implemented various AP features including rates per BSS, packet capture, rogue detection and mitigation, Hybrid Beacon coordination. DFS and silent client detection.

● Implemented Captive portal for redirection based on FQDN and secondary radius support for MAC filtering on Meru Controllers.

Technical Lead
Lucent Technologies

Sep 2004 - Jul 2006 (1 year 11 months)

● Responsible for feature development on multi-service ATM switches used as core (GX-550) and access (CBX-500) switch.

● Implemented MLPPP on CBX500 and fixed customer found defect in OSPF and PNNI.

Senior Software Engineer
Wipro Limited

Jan 2001 - Jun 2002 (1 year 6 months)

● Implemented Interrupt Service Routing Hogging (ISRHOG) and Direct Inward Dial (DID) features for Cisco 17xx PowerPC platform

Senior Software Engineer
Infosys

Jun 2000 - Dec 2000 (7 months)

● Supported Local Number portability called DASH-X, which provides solution for Service Providers to share mobile numbers for new allocation.

Software Engineer
Satyam Computers Service Limited
Jul 1997 - Jun 2000 (3 years)
● Responsible for testing and script development for testing routing, switching and VoIP functionalities for NICs. Used TCL to test ATM, T1/E1 and QoS features for touers.

Education

The University of Texas at Arlington
M. S, Computer Science and Engineering

Dr B R Ambedkar National Institute of Technology, Jalandhar
Bachelor of Technology (BTech), Electronics and Communication Engineering

Skills

Distributed Systems • Cloud Computing • API Development • Kubernetes • Go (Programming Language) • Linux Device Driver • IEEE 802.11 • Internet Protocol Suite (TCP/IP)

Honors & Awards

Pioneer Award - Cisco
Oct 2017
Team award for Product Innovation Category - AP3800 / AP2800 Series Access Points with Flexible Radio.

Employee of the Quarter (MVP) - HPE Aruba Networking
Aug 2013
Recognition received for my contributions towards the flagship 802.11ac AP225 for Aruba Networks.

Employee of the Quarter (MVP) - HPE Aruba Networking
Aug 2012
Recognition received for my contributions towards intellectual property.

Employee of the Quarter (MIMO) - HPE Aruba Networking
Aug 2014
Recognition received for my contributions towards 802.11ac AP205/AP215 access points.

Pioneer Award - Cisco
Nov 2019
Team award for Product Innovation Category - AP4800 with Intelligent Capture