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**Srikanth Govindarajan**

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**WORK EXPERIENCE**

**Cisco Systems**, San Jose,CA **July 2016 - Present**

*Software Engineer*

* Designed and implementation of Hardware Abstraction Layer on Nexus 9k. Focused on the route, replication list, stats info and batching.
* Designed and developed multicast scale from 32k to 128k which was first to market beating competitor by 2 times.
* Board bring-up for Cisco N9k asics for multicast tables and performing forwarding verification.
* Involved in development of in-service software upgrade(ISSU) in Nexus 9k. This feature allows software upgrade while the switch

continues to forward traffic.

* Hardware telemetry – Part of development of event based notification based on hardware events.
* GRE/IPinIP Multicast – Involved in the development of forwarding encap and decap GRE multicast packets.
* Network Load Balancing for multicast on N9k platform, used to distribute client requests across a set of servers.
* Implemented runtime packet and bytes count from DMA read of counter for keeping routes alive in the protocol components.

**Cisco Systems**,San Jose,CA **June 2015 – Aug 2015**

*College Intern*

* Enable third-party app monitoring including accessing switch hardware and daemon service creation. (C,Bash,Linux)

**IBM India Private Limited,** Bangalore, India **July 2013 – May 2014**

*Associate System Engineer*

* SAP HR Module automation and testing using JAVA and Worksoft.   (JAVA, SAP,HTML)

**National Aerospace Laboratories (Government of India),** Bangalore, India**May 2012 – June 2013**

*College Intern*

* Built a Quadrotor from scratch using Arduino and analyzed its stability optimization.
* Modelled the Quadrotor behavior in Matlab and could also simulate it in GUI. (Matlab, LabView, Arduino, Embedded programming)

**EDUCATION**

**University of Maryland,** College Park, MD **Sep’14 – May’16**

Master of Science **-** Electrical and Computer Engineering

**Rashtreeya Vidyalaya College of Engineering,** Bangalore,India  **Sep’09 – May’13**

Bachelor of Engineering **-** Electrical and Communications Engineering

* Best Outgoing Student Awardof 2013 ECE batch.

**TECHNICAL SKILLS**

* **Programming:** C, Python, Assembly Language, Bash
* **Networking Protocols:** TCP, UDP,IPv4,IPv6, L2/L3 Routing Protocols
* **Tools & Technologies**: GDB, Valgrind, Wireshark, GRPC, Protobuf, Cloud Platform, KVM,QEMU
* **Embedded Hardware**: Raspberry Pi, Arduino

**Projects**

* Bare metal programming of Raspberry Pi (C)
* CUDA Binary editing using Dyninst (Cuda, C++)

**Certification**

* Linux Certification by Comptia Linux+ - Credential ID LPI000343019
* Google Cloud Platform Fundamentals: Core Infrastructure by Google Cloud on Coursera
* Microservices by IBM on Coursera

**Achievements**

* Best Outgoing Student Award of 2013 ECE undergrad batch.
* Won 1st prize in a National Level Robotics Competition(50+ teams) in IITM, India. Built a Hovercraft using Arduino platform from scratch.
* Present 4 research papers from 2010-2013. Details are present in linkedin page
* Won many soccer and athletic(track and field) competitions.
* Chess player