

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 Award of 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