

EDUCATION

National Inst of Technology Karnataka Major Specific GPA: 3.92/4.0 9.31/10 Cumulative GPA: 3.76/4.0 8.89/10	B.Tech Computer Engineering	Expected May 2017
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INTERNSHIPS

Samsung R&D (Bangalore, IN)	Student Trainee	May – July 2016
<ul style="list-style-type: none">Member of the SDK and Reference Applications team of the Tizen PF & Protocol Division.Built a new native Voice Recorder application for the mobile suite of the Tizen OS. Responsibilities ranged from developing system APIs to user interfaces.Added a circular image-cropping patch to the existing Image Editor application.		
MOOG ITC (Bangalore, IN)	Research Intern	May – July 2015
<ul style="list-style-type: none">Verified whether MOOG's flight control systems could adapt to multicore architectures.Developed a primitive Linux-based, multicore operating system for flight controls on NVIDIA's Jetson Tegra TK1 chip.		
Xerox IT Services (Bangalore, IN)	Software Engineering Intern	May – July 2014
<ul style="list-style-type: none">Developed test cases using Selenium WebDriver, and Liferay portlets to monitor servers and onboard new clients.Integrated Nagios XI system monitoring tool with the cloud portal.Worked on load balancing and redundancy mechanism for Xerox data centers.		

TECHNICAL SKILLS

Programming Languages Java; C/C++; Python; Julia; JavaScript; PHP; Shell	Database & OS MySQL; Linux; Windows	Web Development Django; Laravel; AngularJS; HTML/CSS; REST APIs;	Familiar With ns-3; Tizen SDK; Liferay; Git; UML; Selenium WebDriver; webRTC; Node.js; Android Studio
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PROJECTS

julia Open Source Contributions

- Co-created NetworkViz.jl, a julia module to visualize graphs in 3D. This module was presented at [JuliaCon-MIT 2016](#).
- Also published a technical [paper](#) in [SCSC '16](#).
- Currently working on a Julia wrapper for webRTC.

ns-3 Open Source Contributions

- Implementation of TCP Westwood – CRB for ns-3.
- Developed patches for ACK DIV, Wormhole, and TTL-based DoS attacks.
- Currently working on the implementation of TCP ABSE for ns-3.

Concat: A Catalog for Conferences

- I contribute to the development of a website that matches academics to conferences in their research areas.
- Website built using Django REST framework and AngularJS, and hosted on AWS.

VirtTorrent

- VirtTorrent is a BitTorrent like protocol for high-speed inter-VM file distribution with minimal network congestion.
- Published a technical [report](#) in [ICC '16](#).

GCPiN: Group Caching for Privacy in NDN

- A new network architecture for Named Data Networking to increase the privacy of cached content.
- Secures the Content Store with minimal performance loss.

Secure Chat

- Created a secure, web-based chat, video and file transfer application using webRTC.
- Content was secured using OTR Encryption and the SMP protocol was used for authentication.
- Finalist at Fidelity Hackathon 2015.