

# Nandita G

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EDUCATION	<b>M.Tech in Computer Science and Engineering</b> National Institute of Technology Karnataka, Surathkal, India <ul style="list-style-type: none"><li>CGPA of <b>7.61</b>/10 (June 2017)</li></ul>	2016 - 2018
	<b>B.Tech in Computer Science and Engineering</b> Amrita School of Engineering, Bangalore, India <ul style="list-style-type: none"><li>CGPA of <b>8.17</b>/10</li></ul>	2010 - 2014
	<b>High School</b> - Vidya Vikas Matriculation Higher Secondary School (Stateboard) - 88%	2008 - 2010
	<b>Secondary School</b> - Christ The King Matriculation School - 95%	2006 - 2008
EXPERIENCE	<b>Internship in NITK</b> <b>Implementation of CHOKe in ns-3</b> : CHOKe (CHOOSE and Keep for responsive flows, CHOOSE and Kill for unresponsive flows) is an AQM that punishes flows which send more packets than their fair share to a router. CHOKe is implemented in ns-3 and validated using test cases. <b>Professional Experience</b> Worked as Programmer analyst at Cognizant Technology Solutions from Feb 5, 2015 to July 15, 2016. Worked on developing a website internal to CTS using .NET.	May, 2017 - July, 2017
TECHNICAL SKILLS	<b>Areas of interest</b> - Databases, Networks <b>Languages</b> - C, C++, Java, SQL <b>Web Technologies</b> - HTML, CSS, Javascript <b>Tools/Frameworks</b> - SQLServer, Git, RStudio(Basic) <b>Application Software</b> - ns-3, MATLAB (Basic)	
PROJECTS	All projects available on git : <a href="https://github.com/gnandita">https://github.com/gnandita</a> <ul style="list-style-type: none"><li><b>Implementation of TCP-LP in ns-3</b> : TCP-LP provides low priority service so that only excess bandwidth is utilized. This is implemented in ns-3 with examples and testcases. The code is submitted for review to ns-3.</li><li><b>Implementation of SRED in ns-3</b> : Stabilized Random Early Detection is an Active Queue Management algorithm which drops the packets using a load-dependent probability when a buffer appears congested. It stabilizes the buffer occupation independent of the number of active connections. This is implemented in ns-3 and validated using test cases.</li><li><b>Implementation of ELN in ns-3</b>(ongoing) : Explicit Loss Notification (ELN) is a mechanism which tells the sender whether the loss of a packet is unrelated to network congestion.</li><li><b>Implementation of Modified Canny Edge detection algorithm</b> : Implemented the paper "An Improved Canny Edge Detection Algorithm" which details about a modification of Canny edge detection algorithm to reduce the sensitivity of the edge detection algorithm to noise and to preserve weak edge information also.</li></ul>	
EXTRA-CURRICULAR ACTIVITIES	<ul style="list-style-type: none"><li>Volunteered and served for Mata Amritanandamayi's 60th birthday.</li><li>Awarded by Kanchi Shankara Mutt, ARR trust Kumbakonam, Tanjore for getting school first in Tenth public exam, Tanjore.</li><li>Participated in Speech Competitions conducted by Sri Ramakrishna Math, Chennai.</li><li>Won prizes for quiz and speech competitions at school level</li></ul>	