

# Varsha Venkatesh

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EDUCATION	<b>SUNY Stony Brook University</b>	<b>Expected December 2016</b>
	Master of Science Candidate, Computer Science	
	<b>SSN College of Engineering, Anna University, India</b>	<b>Class of 2014</b>
	Bachelor of Engineering, Computer Science and Engineering	<b>Rank:2/140</b>
SKILLS	<b>Primary</b>	Python, Java, C#/.Net, C++, C
	<b>Experience With</b>	Windows API, MySQL, Scikit-learn, Visual Studio, Splunk, Apache, Javascript, CGI/Perl, PHP, JSP, R
PROFESSIONAL EXPERIENCE	<b>Riverbed Technology</b> - Software Engineering Intern	<b>May 2016 - August 2016</b>
	Part of NX-Analytics, vertical team working towards NextGen SteelHeads. Collected data from Network Gateways and the central cloud manager of Gateways and piped it to Analytics Virtual Machine.	
	Built a dashboard in Splunk with the collected data for VPN Troubleshooting	<b>Perl, Python, Redis, Splunk</b>
	<b>ZOHO Corp, India</b> - Software Developer	<b>June 2014 - June 2015</b>
	❖ <b>Desktop Central Windows Admin Tools</b>	<b>C#/.Net, WPF, SQLite</b>
	➤ Developed a suite of <a href="#">12 tools</a> that targets Windows Admin of a medium/large scale Enterprise to manage the Windows systems.	
	➤ Windows IT Pro surveyed the product and <b>awarded 3rd place among the top 10 best Administrative Tools available in the market.</b>	
	❖ <b>Customer Identification for Online Marketing Data Analytics</b>	<b>CGI/C++, Apache</b>
	➤ Made changes(NDA) to web hosting services for Online Marketing Data Analytics which was a quantum leap in understanding user's behaviour and website interaction.	
	➤ All ZOHO Products are hosted through these download servers for download by customers from all over the world. <b>Estimated savings in Online Marketing is 20-25% per product.</b>	
	❖ <b>Desktop Central Troubleshooter</b>	<b>C#/.Net, WPF</b>
	➤ Proposed and developed a Troubleshooter for Desktop Central product that identifies generally occurring problems, resolves them automatically or guides the user with the solution, along with log segregation, viewing and analyzing capabilities. <b>The number of Customer Support calls reduced by 37%.</b>	
RESEARCH EXPERIENCE	<b>COMPAS Lab, Stony Brook University</b> - Graduate Student Researcher	<b>Jan 2016 - Present</b>
	Analysing performance of in-memory Graph Analytic Framework Oracle PGX and Domain Specific Language GreenMarl for large graph data by implementing Graph Algorithms.	
		<b>Oracle PGX, GreenMarl, Python</b>
	<b>Indian Institute of Technology(IIT), Hyderabad</b> - Research Assistant	<b>April 2014- May 2014</b>
	Simulated an indoor user random walk mobility model for a chosen building scenario to determine optimal position of Femtocells that guarantee threshold SINR throughout the building.	
	The project involved <b>modifying open source NS3 code by writing more than 1500 lines of code.</b>	<b>NS3, GAMS Solver, OpenGL</b>
	<b>Indian Academy of Sciences</b> - Research Fellow	<b>May 2013 - June 2013</b>
	Design and implementation of an efficient algorithm to reduce congestion in the network due to a large number of M2M devices.	
		<b>MATLAB</b>
ACADEMIC PROJECTS	<b>Subreddit Recommender for Reddit posts   Data Science</b>	<b>November - December 2015</b>
	Developed a recommender that, given the content of a post, suggests the subreddit with best audience - best as defined by by the number of net votes the post is likely to receive. Used stemming and tf-idf for generating bag-of-words features and used K-means clustering and Naives Bayes classifier further in the pipeline.	
	<b>Technologies Used:</b> Google Bigquery API, Google Cloud Storage Bucket, Ipython-notebook, Scikit Learn, NLTK	
	<b>Phrase Similarity using Deep Learning   Computational Linguistics</b>	<b>November - December 2015</b>
	Using Bidirectional Recursive Neural Networks to find the similarity between phrases that is used to build a Question Answering System that recognize instances of processes.	
PUBLICATION		<b>Python, Theano, Lasagne, NLTK</b>
	<b>"Handover and SINR Optimized Deployment of LTE Femtocells in Enterprise Environments",</b> accepted in Springer Wireless Personal Communication(WPC), January 2016 <a href="#">journal link</a>	
	<b>"Energy-efficient Femtocell Placement in LTE Networks"</b> , IEEE CONEECT, July 2015, Bangalore, India <a href="#">paper link</a>	