

## EDUCATION

<b>Raleigh, NC</b>	<b>North Carolina State University</b>	<b>Fall 2015 – Dec 2016</b>
<ul style="list-style-type: none"><li>• Master of Computer Science, started in Fall, 2015. Current CGPA 4.0 out of 4.0.</li><li>• Coursework till now: Data Intensive Computing, Computer Networks, Operating systems, Parallel Systems Machine Learning, IOT Analytics, Compiler Construction, Computer and Network Security</li></ul>		
<b>Lucknow, India</b>	<b>Uttar Pradesh Technical University</b>	<b>Aug 2008 – June 2012</b>
<ul style="list-style-type: none"><li>• Bachelor of Technology in Computer Science with 71% aggregate marks.</li><li>• Important coursework: Algorithms, Comp. Networks, OS, Compiler, Artificial Intelligence, Automata</li></ul>		

## EXPERIENCE

<b>Mountain View, CA</b>	<b>Nuage Networks from Nokia</b>	<b>June – August 2016</b>
<ul style="list-style-type: none"><li>• Worked as <i>Technical Marketing Expert Intern</i>.</li><li>• Full stack development of a web portal to serve files, using server-less architecture and AWS Lambda.</li><li>• Built a generic notification delivery service, to send email, SMS, Slack and AMQP notification messages.</li></ul>		
<b>Bengaluru, India</b>	<b>Mavenir Systems (now Mitel Networks)</b>	<b>Sep 2012 – Aug 2015</b>
<ul style="list-style-type: none"><li>• Worked as <i>Sr. Software Engineer, Research and Development</i>.</li><li>• <b>Cassandra driver</b>: Designed and implemented a driver for Cassandra database in C++ that acts as a reliable communication layer between applications and Cassandra server nodes across data centers.</li><li>• <b>Message store</b>: Implemented a REST service that stores and forwards SMS, MMS and Voicemails in a mobile phone network using Cassandra and Openstack Swift as backend storage.</li><li>• <b>C++ Thread pool</b>: Developed a general purpose thread pool in C++ using pthread library that provides lightweight threads to perform blocking I/O.</li><li>• <b>Store and forward in distributed database</b>: Conceptualized and implemented a distributed and scalable message store and forward service with little to no support for locking in Cassandra.</li><li>• <b>Apple Visual Voicemail server</b>: Integrated Apple's IMAP based Voicemail client with IMAP message store with little documentation available for Apple client.</li></ul>		

## PROJECTS

(Github: <https://github.com/WintersLt>)

- **Genetic algorithm framework on Apache Hadoop YARN**. A framework that allows any genetic algorithm to be executed in cluster using Apache YARN for resource management. Java, YARN, HDFS
- **A Linux shell**. A shell similar to csh, with background job execution, pipes, input/output redirection and basic shell scripting support. C/C++
- **MPI Implementation**. A library similar to OpenMPI, that establishes communication and synchronization among processes in a cluster of nodes. C
- **Expertiza**. An open source academic course management system. Implemented module to periodically crawl the URLs submitted by students and check for any updates in the content at the URL. Ruby on Rails
- **Scraping LinkedIn public profiles to figure out popular courses at a university**. I used google search APIs for collecting relevant profiles. Ruby

## PUBLICATION

- **"Design of a Parallel Migrating Web Crawler"**. The paper proposes a simple mobile agent based design for a web crawler (<http://bit.ly/1VjDNMz>). Published in IJARSSE, 2012.

## LANGUAGES AND TECHNOLOGIES

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| <ul style="list-style-type: none"><li>• <b>Languages</b>: C++, Python, Ruby, Python, R, CUDA, MPI</li><li>• <b>Tools</b>: gdb, Valgrind, Wireshark, git</li></ul> | <ul style="list-style-type: none"><li>• <b>Databases</b>: Cassandra, Openstack Swift, Oracle</li><li>• <b>Technologies</b>: RabbitMQ, Ansible, Rails</li></ul> |
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