

## EDUCATION

<b>Master of Science, Computer Science</b>	<b>Expected May 2018</b>
North Carolina State University, Raleigh, NC	GPA 3.7/4.0
<b>Bachelor of Engineering, Information Technology</b>	<b>May 2014</b>
University of Mumbai, India	GPA 3.8/4.0
<b>Relevant Coursework:</b> Data Structures, Algorithms, Operating Systems, Computer Networks, Software Engineering, Cloud Computing, Automated Learning & Data Analysis, Algorithms for Data Guided Business Intelligence, Software Security	

## TECHNICAL SKILLS

**Languages:** Java, Python, C#, R

**Web Technologies:** Spring MVC, Node.js, AngularJS, ASP.NET MVC, Ruby on Rails, HTML5, CSS3, jQuery, Ajax, Bootstrap

**Database Technologies:** MS SQL, MySQL, Oracle 11g, Apache Cassandra

**Tools:** Ansible, Docker, Jenkins, Maven, Selenium, Elasticsearch, Logstash, Kibana, Apache Spark, Tensorflow, Amazon AWS

## WORK EXPERIENCE

<b>Software Engineering Intern</b>	<b>Cisco Systems, Research Triangle Park</b>	<b>May 2017 – Aug 2017</b>
<ul style="list-style-type: none"><li>• Worked with the Cloud Collaboration team to Implement Cisco Spark call failure analysis using machine learning</li><li>• Built a GPU server and setup the model training and prediction workflows to perform real time call failure classification</li><li>• Worked on troubleshooting issues, bug fixes, automation scripts and REST API performance tests for Cisco Spark Call</li><li>• Technologies used include Linux Bash, Python, Docker, Elasticsearch, Kibana, Apache Spark, Maven, Cassandra</li></ul>		
<b>Software Developer</b>	<b>Tata Consultancy Services, Mumbai, India</b>	<b>Sep 2014 – Jul 2016</b>
<i>ABN Amro Bank, UK – Global Treasury</i> <ul style="list-style-type: none"><li>• Implemented a Forex and Money Market deal capturing system for Treasury traders using ASP.NET MVC framework</li><li>• Enhanced Treasury system for additional Savings products, remodeled MVC code and optimized transaction workflow</li><li>• Developed an automation tool in C# for upgrading CRM application which reduced turnaround time by 540 man-hours</li><li>• Customized a workflow system in Spring to trigger scheduled EOD notifications on bank's balance and currency positions</li><li>• Served as a lead developer, held design discussions with clients and ensured timely software solution deliverables</li></ul>		
<b>Programming Intern</b>	<b>NCSU Office of Information Technology</b>	<b>Jan 2017 – May 2017</b>
<ul style="list-style-type: none"><li>• Worked on implementing OIM as NC State's central infrastructure that handles user Identity and Access Management</li><li>• Involved in IDM data migration to Oracle 11g database and performed application testing using Jenkins</li></ul>		

## SELECT PROJECTS

**Slack DevOps Chat Bot - VMops** ( *NodeJS, Vagrant, Ansible, Amazon AWS, CloudWatch* )

- Developed a conversational slack bot to configure and manage remote virtual machines on AWS servers using Ansible
- Implemented features for users to spin up VMs, monitor resource utilization, merge VMs and shrink VM resources

**Performance Analysis of Containers and VMs for Cloud Applications** ( *Docker, VirtualBox, Grafana, OpenNMS* )

- Analyzed performance of Docker containers vs Type 2 hypervisor based VMs for compute and data centric cloud apps
- Performed benchmark tests for CPU, memory, disk I/O metrics; rendered real time comparison using OpenNMS, Grafana

**Open Source Contribution - Security Analysis and Risk Mitigation of OpenMRS**

- Performed threat modelling, static and dynamic analysis of OpenMRS app using HP Fortify, OWASP ZAP and Burp Suite
- Developed code fixes of risk mitigations, contributed to public repository and presented a complete risk analysis report

**Reliable File Sharing System over UDP** ( *Python, C++* )

- Developed a file sharing system using Go-back-N with automatic repeat request and Selective Repeat ARQ over UDP
- Implemented retransmission scheme, timeout and checksum to ensure reliable and efficient UDP data transfer

**Twitter Sentiment Analysis** ( *Python, Apache Spark, Kafka, D3.js* )

- Processed live Twitter feeds on specific events using Spark streaming APIs, queued and buffered streams using Kafka
- Analyzed tweets on the context of positive or negative reactions using classifiers, rendered graphical analysis using D3.js

**Open Source Contribution – Feature Addition to Expertiza LMS** ( *Ruby on Rails, Google Drive API, Heroku* )

- Added a collaborative assignment review feature to Expertiza Learning Management System using Google Drive API
- Enabled users to collaborate on assignments in google docs with appropriate access levels and maintained peer reviews

## AWARDS & RECOGNITION

- Achieved a jury award of Second position at LexisNexis Rise to Code 2017 Hackathon
- Certificate of Excellence on client nomination at Tata Consultancy Services for proficient application development