

EDUCATION

Master of Science, Computer Science	Expected May 2018
North Carolina State University, Raleigh, NC	GPA 3.7/4.0
Bachelor of Engineering, Information Technology	May 2014
University of Mumbai, India	GPA 3.8/4.0
Relevant Coursework: 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

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

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