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SHYAMSUNDER RAMAKRISHNAN

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EDUCATION

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

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#
Web Technologies: Java Spring MVC, NodeJS, AngularJS, ASP.NET MVC, Ruby on Rails, HTML5, CSS3, jQuery, Bootstrap
Database Technologies: MS SQL, MySQL, Oracle 10g, Apache Cassandra
Tools: Ansible, Docker, Jenkins, Maven, Selenium, ElasticSearch, Logstash, Kibana, Apache Spark, Tensorflow, Amazon AWS

WORK EXPERIENCE

Software Developer	**Tata Consultancy Services, Mumbai, India**	**Aug 2014 – Jul 2016**

ABN Amro Bank, UK – Global Treasury
- Implemented a Forex and Money Market deal capturing system for Treasury traders using ASP.NET MVC framework
- Developed a customized tool in C# for automating an issue tracking system that reduced approx. 5000 tickets per month
- 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

Software Engineering Intern	**Cisco Systems, Research Triangle Park**	**May 2017 – Aug 2017**

- 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

Programming Intern	**NCSU Office of Information Technology**	**Feb 2017 – May 2017**

- Worked on implementing OIM as NC State's central infrastructure that handles user Identity and Access Management
- Performed application testing and data validation during IDM data migration from legacy Unity system to OIM

SELECT PROJECTS

Slack DevOps Chat Bot - VMOps *(NodeJS, Vagrant, Ansible, Amazon AWS, 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 Grafana, OpenNMS

Open Source Software Contribution - Expertiza *(Ruby on Rails, Google Drive API, Heroku)*
- Added a collaborative assignment review feature in Expertiza Ruby on Rails LMS application using Google Drive API
- Established service account authentication and maintained peer review goodle docs with appropriate access levels

Twitter Sentiment Analysis *(Python, Apache Spark, Kafka, D3.js)*
- Processed live streams of Twitter reactions on an event using Apache Kafka, Python and rendered a sentimental analysis
- Analyzed tweets on the context of positive or negative reactions using classifiers and provided visual results using D3.js

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

AWARDS & RECOGNITION

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

COMMUNITY SERVICE

- Engaged in educational drives as a fellow at Teach for India to provide schooling for under-privileged children