

# Shyam Ramakrishnan

<https://shyam-ramakrishnan.github.io> | [sramakr9@ncsu.edu](mailto:sramakr9@ncsu.edu) | (650) 495-0343

## EDUCATION

### NC STATE UNIVERSITY

MS IN COMPUTER SCIENCE

Expected May 2018 | Raleigh, NC

Cum. GPA: 3.6 / 4.0

### UNIVERSITY OF MUMBAI

BE IN INFORMATION TECHNOLOGY

May 2014 | India

Cum. GPA: 3.7 / 4.0

## LINKS

Github:// [shyam-ramakrishnan](#)

LinkedIn:// [shyam19](#)

Website:// [shyam-ramakrishnan](#)

## SKILLS

Programming Languages:

• Java • Python • C# • R

Web Technologies:

• Spring MVC • Node.js • AngularJS  
• ASP.NET MVC • Ruby on Rails • jQuery  
• Ajax • Bootstrap

Database Technologies:

• MS SQL • MySQL • Oracle 11g

Tools:

• Ansible • Docker • Jenkins • Selenium  
• ELK Stack • Apache Spark • Tensorflow  
• Amazon AWS

## COURSEWORK

Design and Analysis of Algorithms

Object Oriented Development

Cloud Computing Technology

Automated Learning and Data Analysis

Software Engineering

Software Security

Artificial Intelligence

Machine Learning

Algorithms for Business Intelligence

User Experience

## ACHIEVEMENTS

- Second position at LexisNexis Rise to Code 2017 Hackathon, Raleigh NC, Nov 2017
- Certificate of Excellence and client satisfaction for ABN Amro Bank NV, India, Mar 2016

## EXPERIENCE

### CISCO SYSTEMS | SOFTWARE ENGINEERING INTERN

May 2017 – Aug 2017 | Raleigh, NC

- Implemented call failure analysis for Cisco Spark using Machine Learning algorithms
- Developed model training and prediction workflows to perform real time call failure classification
- Improved API performance by implementing caching and increased request throughput by 20%

### TATA CONSULTANCY SERVICES | SOFTWARE ENGINEER

Sep 2014 – Aug 2016 | Client: ABN Amro Bank

- Implemented a Forex and Money Market deal capturing system using ASP.NET MVC framework and MS SQL database
- Enhanced Savings Treasury product by remodeling MVC code which optimized transaction workflow
- Implemented C# automation plugin which reduced turnaround time by 540 man hours for a CRM application upgrade

### NC STATE UNIVERSITY OIT | PROGRAMMING INTERN

Jan 2017 – May 2017 | Raleigh, NC

- Deployed Oracle Identity Manager infrastructure and performed data migration from Unity system to Oracle 11g

## PROJECTS

### SLACK DEVOPS CHAT BOT | Node.js, Ansible, AWS | Github

Developed a conversational slack bot to configure and manage remote virtual machines on AWS servers. Provided functionalities to create, merge and shrink virtual machines and monitor resource utilization

### PERFORMANCE ANALYSIS OF DOCKER & VMS | Docker, VirtualBox | Github

Analyzed performance of Docker containers vs Type 2 hypervisor based VMs for compute and data centric cloud apps. Benchmarked CPU, memory, disk I/O and rendered real time performance comparison

### FEATURE ADDITION TO EXPERTIZA – OPEN SOURCE | Ruby on Rails | Github

Added a collaborative assignment review feature to an open source learning management system

### SECURITY ANALYSIS OF OPENMRS – OPEN SOURCE | Java | Github

Performed static and dynamic analysis of OpenMRS app against OWASP ruleset. Implemented security mitigation fix for sql injection and other solutions to public repository

### TWITTER SENTIMENT ANALYSIS | Python, Apache Spark, Kafka | Github

Processed, streamed and analyzed twitter feed for positive and negative reactions on specific events

### PREDICTING NBA TEAM PERFORMANCE | R, Data Analysis | Github

Applied various learning algorithms on NBA past season statistics. Predicted a team's playoffs and championship probability with 91% accuracy

### LIBRARY ROOM RESERVATION APP | Ruby on Rails, Bootstrap | Github

Developed an E2E application to book rooms, lookup statuses and get automated notifications

### RELIABLE FILE SHARING SYSTEM OVER UDP | Python, C++ | Github

Developed a file sharing system using Go-back-N and Selective Repeat ARQ (Automatic Repeat Request) to implement reliable UDP data transfer