Shyam Ramakrishnan

https://shyam-ramakrishnan.github.io | 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 • ASP.NET • Node.js
• AngularJS • Ruby on Rails • jQuery
• Ajax • Bootstrap

Database Technologies:
• MS SQL • MySQL • Oracle 11g

Tools:
• Ansible • Docker • Jenkins • Selenium
• ElasticSearch • Kibana • Apache Spark
• Apache Kafka • 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 for successful delivery of Treasury Trading application at ABN Amro Bank NV, India, Mar 2016

EXPERIENCE

CISCO SYSTEMS | Software Engineering Intern
May 2017 – Aug 2017 | Raleigh, NC
• Implemented a call failure analysis tool for Cisco Spark using Keras deep learning framework
• Developed trained model and predicted call failure classification on real time call logs with 98% accuracy
• 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 NV | India
• 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 turn around 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 & VM | 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 core rule set. 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