

# SRI RACHANA ACHYUTHUNI

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## EDUCATION

**Rochester Institute of Technology**, Rochester, NY  
*Master of Science, Computer Science*

**Expected Dec 2021**

**Amritha School of Engineering**, Bangalore, India  
*Bachelor of Technology, Computer Science and Engineering*

**Aug 2013 – May 2017**

## TECHNICAL SKILLS

**Languages & Frameworks:** Java, Python, HTML5, CSS, Bootstrap  
**Operating Systems:** Windows, MacOS, Linux – Ubuntu, RHEL  
**Databases & Servers:** MySQL, MongoDB, PostgreSQL, RDS, DynamoDB  
**Tools and Technologies:** AWS, Ansible, Docker, Git, Jira, Trello, IntelliJ, PyCharm  
**Certifications:** AWS Certified Cloud Solutions Architect, Core Java (NIIT)

## WORK EXPERIENCE

**Ansible Cloud Developer Intern**, Redhat, North Carolina | *Boto3, Python, Ansible*

**May 2021 – Aug 2021**

- Worked on fixing bugs in AWS modules of Ansible such as EC2 snapshot module built using Boto3 in Python.
- Ran integration, sanity and unit tests in python to test the code developed as a fix.
- In future, will work on developing Ansible module for AWS EC2 Spot Instances.

**Cloud Support Engineer**, Amazon Web Services, India | *Python, Java, AWS, DevOps*

**June 2017 – Aug 2019**

- Built a python module to test Macros feature in CloudFormation.
- Assisted customers in 500+ tickets to continuously develop and deploy applications on Amazon Cloud.
- Worked with 2-3 major customers to come up with architecture level ideas for developing and deploying application.

## PROJECTS

**Object Detection and Evaluation** | *Artificial Intelligence, Python*

**April 2021**

- YOLO5 model which is Convolutional Neural Networks (CNN) was used to classify 25 images in Python library. The evaluation showed accuracy, precision and recall as 75%, 85 % and 83%.
- After applying augmentation on the images, the accuracy, precision and recall was improved to 82%, 87% and 93%.

**Load Balancing using Round Robin** | *Cloud Computing, Java*

**Aug 2020 – Nov 2020**

- Using Java interfaces and classes, Round Robin Approach was implemented for Load Balancing amongst Docker containers.
- This system was then compared with AWS Classic Load Balancer and HaProxy Load Balancing.
- The cost was about 25% higher in case of AWS Classic Load Balancer.

**Movie Review Analysis** | *Big Data Analytics, Python*

**Aug 2020 – Nov 2020**

- Two datasets – IMDb and MovieLens were integrated and inserted in MongoDB using Python and PyMongo.
- K-means clustering technique was applied to find the optimal number of clusters as 3.
- Apriori Algorithm was used with minimum support of 5 and found that the most frequent number of actors is 6.

**Make Up Application (Self-Project)** | *Computer Vision, Python*

**Nov 2020**

- Developed a program which detects facial landmarks using Dlib Python package and PIL library tools and applies blush, lipstick and eye liner using gaussian blur, smoothening and interpolation techniques.
- This application was used to classify about 5 images out of which all the images' facial features were detected accurately

**Mini Projects** | *Data Structures, Algorithms, OOP concepts, Java, Python*

**Aug 2019 – Dec 2019**

- Implemented Binary Search Tree, Heap, Linked List, Stack, Queue, search and sort algorithms in Python.
- Implemented multi-threading in Java to count the occurrences of each digit in 1 billion numbers and deadlock resolution program using synchronization.