SRUJANA RACHAKONDA

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Objective
Seeking a Software Engineering Internship opportunity for Summer 2020, to maximize my knowledge in real time systems and gain hands on experience with production quality software and scale

Education
North Carolina State University | Raleigh, NC　　　　　　　　　　　　　　　　　　　Dec 2020
Master of Computer Science
Coursework: Object Oriented Design & Development, Design Analysis of Algorithms, Foundation of Data Science
Organizations: Women in Computer Science at NCSU
Jawaharlal Nehru Technological University (JNTUH) | Hyderabad, India　　　　　　　May 2018
Bachelor of Technology in Computer Science – First class with Distinction　　　　　　　82.16%
Coursework: Advanced Data Structures, Database Management, Distributed Systems, Computer Networks

Technical Skills
- Programming languages: Java, C++, C, Ruby, Python, HTML, CSS, JavaScript
- Databases: DynamoDB, MYSQL, PostgreSQL
- Operating systems: Unix/Linux, Windows
- Frameworks and Libraries: Ruby on Rails, OpenCV, Scikit-learn, Numpy, Pandas, JAX-RS, Protractor

Key Academic Projects
Music Genre Classification ([Link](#))　　　　　　　　　　　　　　　　　　　　　　Spring 2018
- Application which utilizes GTZAN dataset of 1000 audio files to classify them into different music genres
- Applied MFCC for feature extraction and implemented state-of-the-art classifiers using scikit-learn and ranked them based on performance
- Incorporated an ensemble with majority voting heuristic, achieved an accuracy of 92.6% against four genres

Library Management System ([Link](#))　　　　　　　　　　　　　　　　　　　　　　Fall 2019
- Developed a web application using ruby on rails framework that integrates admin, librarians and students for an effortless experience, hosted on Heroku
- Implemented additional features such as auto checkouts on availability, hold requests and email notifications.

Expertiza – Peer Review System (Open Source Project) ([Link](#))　　　　　　　　　Fall 2019
- Implemented the bookmark rating functionality using Ruby on Rails MVC framework. Students can rate the effectives of the bookmarks contributed by their peers using this feature
- Fixed existing bugs with respect to rating average calculation logic and back button
- Thoroughly tested both the model and controller using Rspec

Face Recognition Based Attendance System　　　　　　　　　　　　　　　　　　　Fall 2017
- Developed an application in python utilizing haar-cascade classifier of OpenCV for object detection
- Built student and admin portals with Java Server Pages and PostgreSQL to manage attendance

Work Experience
Graduate Teaching Assistant | Compiler Construction | NC State University　　　August 2019 - Present
- Grading assignments, projects and midterms of 65 students. Conducting office hours for queries from students.

Quality Assurance Engineer | Amazon Development Center | Hyderabad, India　　　July 2018 - July 2019
- Developed test automation framework for web services using TestNG for service tests and protractor for UI testing, reduced manual testing efforts by 70%
- Designed APIs to aid test-data generation for automated testing, used Mockito for unit testing

Quality Assurance Engineer Intern | Amazon Development Center | Hyderabad, India　　May 2017 - July 2017
- Designed and executed an integration test framework in Java using TestNG for the Shipment Planning and Orchestration team responsible for transportation of millions of shipments across the Amazon logistics network.