ARJUN **RAVIKUMAR**

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EDUCATION

Rochester Institute of Technology *Rochester, NY*
Master of Science *August 2019 - Dec 2021 (Expected)*
Major in Computer Science
Current CGPA: **3.92 / 4.0**
Relevant Coursework: Advanced Object-oriented Programming, Computational Problem Solving, Foundation of Computing Theory, Introduction to Big Data, Foundation of Artificial Intelligence, Foundations of Algorithms, Foundations of Computer Vision, Introduction to Machine Learning, Big Data Analytics.

Mahatma Gandhi University *Kerala, India*
Bachelor of Technology *August 2011-June 2015*
Major in Computer Science and Engineering

WORK EXPERIENCE

Graduate Technical Assistant - System Administrator at Rochester Institute Of Technology, Rochester, NY *Jan 2020 - Present*

- ➔ Providing support to the systems administrators, assisting over 1000 faculty and students with issues related to systems, servers and user accounts. Maintenance and troubleshooting of over 250 systems and servers part of the Computer Science Department.
- ➔ Implemented analytics and monitoring tool for over 100 machines part of the Computer Science department of RIT.
- ➔ Designed and implemented load balancer servers across more than 100 machines part of the Computer Science department of RIT.

Game Programmer - R&D at Ruby Seven Studios Inc. , Kerala, India *May 2017 - July 2018*

- ➔ Reduced the production time by 80% by developing multiple applications for art tasks using **Python**, **JSX** (Adobe Photoshop).
- ➔ Led a team of 3 to develop the Multi-Strike Poker game on Facebook Instant Games platform.

Junior Game Programmer at Ruby Seven Studios Inc. , Kerala, India *June 2015 - May 2017*

- ➔ Developed TropWorld Casino, Lucky North Casino, Bestbet Casino (**ActionScript**) in a team of 5.
- ➔ Developed over 20 Slot machines, created a new purchase engine for the games, and integrated multiple external Ad frameworks.
- ➔ Reduced the load time of games by 75% by restructuring the loading process.
- ➔ Converted existing Flash games to HTML5 (**JavaScript**).

SKILLS

- Programming Languages: Python, Java, JavaScript
- Database: MySQL, MongoDB
- Other: Front-End Development, Back-End Development, Full Stack Development, Computer Vision, Deep Learning, DNN, ML Machine Learning, Supervised Learning, Unsupervised Learning, CNN, AI Artificial Intelligence, Gradle, Git, SVN.

PROJECTS

Artificial Intelligence/Machine Learning Projects (Python) *January - April 2020*

- The optimal path through a map was determined by accommodating the constraints like terrain, altitude, and seasons for orienteering.
- Predicting the language of given text based on a set of features.
- Predicting the number of stop signs, left turns and right turns in and around Rochester,NY from multiple GPS data.
- Predicting handwritten digits from MNIST database with a test accuracy or more than 92%. (60,000 - train dataset; 10,000 test dataset)

IMDB Big Data Management (Java) *January - April 2020*

- Migration of database from MySQL to MongoDB and perform queries using aggregation pipelines.
- Implemented K-means clustering from scratch to cluster the Movie data based on ratings and year released.
- Performed frequent item-set mining using the Apriori algorithm on the MySQL database to fetch frequently occurring actors in movies.

Raspberry Pi Personal Projects *2018*

- Implemented a NAS server, SMB server, AFP server, and Personal media library.

Android Applications

Emergency Medical Service(Java) *January - May 2015*

- Designed and developed an android application that collects and stores the medical history of the patient on a secure cloud server and suggests a nearby hospital according to the medical history of the patient in case of emergency.

Adaptive Profile Changer (Java) *July - December 2014*

- Designed and developed an android application that changes the sound profile of the mobile device according to the current GPS location.

AWARDS & ACHIEVEMENTS

- Awarded 75% scholarship for Spring, Fall 2020 by the CS Department at Rochester Institute of Technology from a group of more than 300 students based on academic success and leadership potential.