Sreedhar Radhakrishnan

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EDUCATION

CARNEGIE MELLON UNIVERSITY
MS in Information Networking
May 2021 (Expected) | Pittsburgh, PA
GPA: 3.93 / 4.0

PES UNIVERSITY
BTech in Computer Science
May 2018 | Bangalore, India
GPA: 9.23 / 10.0

GRADUATE COURSES

MACHINE LEARNING COURSES
Intro. to Machine Learning
Applied Machine Learning
Machine Learning at Scale

SOFTWARE SYSTEMS COURSES
Distributed Systems
Software Engineering
Operating Systems

UNDERGRAD COURSES

Algorithms
Data Structures
Big Data
Machine Learning
Image Processing
Natural Language Processing
Information Retrieval
Object Oriented Design
Web Services

SKILLS

PROGRAMMING LANGUAGES
Java • Python • Go • JavaScript
C • PL/SQL • R
MACHINE LEARNING
Python • Tensorflow • Numpy • PySpark
WEB TECHNOLOGIES AND DATABASES
HTML • CSS • JavaScript • Vue.js • Flask • MongoDB • MySQL
CLOUD COMPUTING AND BIG DATA
AWS Kinesis • AWS DynamoDB • AWS CloudWatch • Apache Spark • Docker

ACADEMIC AWARDS

CMU GRADUATE SCHOLARSHIP
PES UNDERGRADUATE SCHOLARSHIP
USC, VITERBI RESEARCH PROGRAM

INDUSTRY EXPERIENCE

ADOBE INC. | SDE Intern, Emerging Products Group
May 2020 – August 2020 | San Jose, CA

- Designed and developed a Natural Language Search System from scratch that recommends solutions to issues/blockers faced by engineers. **(Tech Stack: Python, BERT, PySpark, MongoDB)**.
- The product was successfully deployed to production and **presented at the Adobe Photoshop Developer Meetup**.

GE | Software Development Engineer
August 2018 – June 2019 | Bangalore, India

- Applied Pub/Sub pattern and developed a **Cloud-Native Data Pipeline using Java, AWS Kinesis** and **DynamoDB** to stream data changes of over 5 million assets at the rate of 3000 records/second in near real-time. **(Tech Stack: Java, Go, AWS Kinesis, AWS DynamoDB)**
- Implemented **REST APIs using Go** for retrieval of aircraft engine asset information from over 5 million records.

RESEARCH EXPERIENCE

UNIVERSITY OF SOUTHERN CALIFORNIA
Research Scholar - Deep Learning for Computer Vision
June 2017 – July 2017 | Los Angeles, CA

- Conducted research in the area of Deep Learning for Computer Vision under Dr. Jay Kuo at the USC, Media Communications Lab.
- Developed a **Cycle GAN model for image translation** of synthetic images to realistic urban scene images. Research use case was in the area of data augmentation for training autonomous vehicles. IEEE Link.

PES UNIVERSITY
Undergrad Thesis - Machine Learning and Computer Vision
January 2018 – May 2018 | Bangalore, India

- Worked as part of a team of 3 students under the supervision of Dr. Ramamoorthy Srinath in the area of Creative Intelligence.
- Developed a **Conditional GAN** driven web service that generates and renders multiple car design images from a sketch. Springer Link.

ACADEMIC PROJECTS

- Implemented a **RESTful Distributed File System** from scratch supporting all common file system operations, data replication and custom reader-writer locks for synchronization.
- Engineered an **Image Processing Pipeline** to recommend apparels similar to those worn by actors in videos. Blog Link
- Implemented a **Blockchain System** using the Proof of Work protocol, Proof Authority Protocol and SHA-256 hashing algorithm to provide a scalable anonymous voting platform.
- Successfully engineered an **Athlete Evaluation Formula** in the sport of cricket and **obtained a 19% improvement in accuracy** from the baseline model as a predictor for game performance. IEEE Link