SREEDHAR RADHAKRISHNAN

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA
Master of Science in Information Networking | **Awarded CMU Graduate Scholarship** *May 2021*
Coursework: Introduction to Computer Systems, Cyber Intelligence, Machine Learning

PES University, Bangalore, India *May 2018*
Bachelor of Technology in Computer Science | **Awarded Academic Merit Scholarship**
Coursework: Data Structures, Algorithms, Operating Systems, Machine Learning, Web Development, Big Data
Extracurricular: Entrepreneurship Cell - Public Relations Team Lead | IEEE Student Body - Core Team Member

SKILLS

Programming Languages: Java, Python, Go, JavaScript, C, Pl/SQL
Web Technologies: HTML, CSS, JavaScript, JQuery, AJAX, RESTful Web Services
Cloud Computing and Big Data Technologies: Amazon Web Services, Hadoop Distributed Filesystem, Apache Hive

EXPERIENCE

GE Bangalore, India
Software Development Engineer *August 2018 - June 2019*
Software Engineer, Intern *January 2018 - June 2018*

- Applied Publish-Subscribe Design Pattern and built a Data Pipeline using Java, AWS Kinesis and AWS DynamoDB to notify stakeholders regarding data changes and anomalies.
- Achieved a performance of monitoring data changes and streaming 3000 records/second.
- Implemented Microservices using Go for efficient retrieval of GE asset data from over 5 million records.
- Optimized PL/SQL stored procedures by identifying suitable indexes and eliminating redundant joins. Achieved 10x improvement in speed in the production environment.

University of Southern California, Viterbi School of Engineering Los Angeles, CA
Visiting Research Scholar *June 2017 - July 2017*

- Developed a Cycle GAN model for image translation of synthetic images to realistic urban scene images. Research use case was generation of training data for applications such as urban scene understanding.
- Presented and published at the 9th IEEE International Conference on Computing, Communication and Networking Technologies held at Indian Institute of Science (IISc). ieeexplore.ieee.org/document/8493745.

PROJECTS

Car Design Studio With Generative Adversarial Networks
Tech Stack: Python, TensorFlow, Flask, HTML, CSS and JavaScript | Full Stack Development *January 2018 - May 2018*

- Built a Conditional GAN driven Web Application for car designers to generate probable designs from a basic car sketch. Developed a paired dataset of over 200 car sketches and their corresponding images.
- Presented and published at the 2018 IFIP Cross Domain Conference for Machine Learning and Knowledge Extraction held at University of Hamburg, Germany. springer.com/chapter/10.1007/978-3-319-99740-7_11.

Centralized Web Service for Multiple Social Networks
Tech Stack: Java, Jax-RS and Jersey | Backend Development *August 2017 - December 2017*

- Implemented REST APIs to enable authorised users to broadcast and read messages from multiple social networks. The web service was consumed by a student team working on sentiment analysis of social media posts.

Computing the Versatility of Cricket Athletes
Tech Stack: Python and R | Data Science *May 2016 - August 2016*

- Modeled cross-format cricket athlete performance using Binary Matrix and computed versatility score of the athletes.
- Achieved 19% improvement in performance estimation by adding the versatility score in the athlete evaluation formula.