# SREEDHAR RADHAKRISHNAN

(412) 499-1178 ◇ sreedhar@andrew.cmu.edu ◇ linkedin.com/in/sreedhar-radhakrishnan ◇ sreedhar1895.github.io

## 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 and Engineering | **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 REST APIs using Go for efficient retrieval of GE asset data from over 5 million records.
- Optimised PL/SQL stored procedures by identifying suitable indexes and eliminating redundant joins. Achieved a 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.
- Published at the 9$^{th}$ International Conference on Computing, Communication and Networking Technologies held at Indian Institute of Science (IISc). ieeexplore.ieee.org/document/8493745.

## PROJECTS

**Automating Car Design Studio With Generative Adversarial Networks (GAN)**
Tech Stack: Python, TensorFlow, Flask, HTML, CSS and JavaScript *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 *August 2017 - December 2017*

- Implemented RESTful Web Services to enable authorised users to broadcast and read messages from multiple social networks. Consumed a Database as a Service hosted on AWS for handling the database operations.

**Image Content Based Recommendation System For Apparels**
Tech Stack: Python and openCV *January 2017 - May 2017*

- Designed and developed an Image Processing Pipeline for recommending apparels similar to those worn by actors in videos. Maintained a blog to share learning. projectenvision.wordpress.com.