

# SREEDHAR RADHAKRISHNAN

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## EDUCATION

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### 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

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**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

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### 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<sup>th</sup> International Conference on Computing, Communication and Networking Technologies held at Indian Institute of Science (IISc). [ieeexplore.ieee.org/document/8493745](https://ieeexplore.ieee.org/document/8493745).

## PROJECTS

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### 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](https://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](https://projectenvision.wordpress.com).