

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.
- Optimised 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. Consumed a Database as a Service hosted on Amazon Web Services for handling database operations.

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 the versatility of the athletes.
- Achieved 25% increase in performance estimation by adding the versatility score in the athlete evaluation formula.