SREEDHAR RADHAKRISHNAN

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA
Master of Science in Information Networking | **Awarded CMU Graduate Scholarship** *May 2021*
Specialisation Areas: Software Systems, Application Development and 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 and Databases: JavaScript, JQuery, Flask, Go kit, Vue.js, MySQL, PostgreSQL, MongoDB, DynamoDB
Tools and Frameworks: AWS (Kinesis, EC2, Lambda, DynamoDB) , Docker, TensorFlow, Apache Hadoop, Apache Hive, Git

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 of over 5 million assets.
- 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 versatility score in the athlete evaluation formula.