SREEDHAR RADHAKRISHNAN

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA | **Awarded CMU Graduate Scholarship** *Expected: May 2021*
MS in Information Networking | **Specialisation: Software Systems and Application Development** **GPA: 3.89/4.0**
Coursework: Distributed Systems, Applied Machine Learning, Data Driven Software Engineering, Operating Systems

PES University, Bangalore, India | **Awarded Academic Merit Scholarship** *May 2018*
Bachelor of Technology in Computer Science **GPA: 9.23/10.0**
Coursework: Data Structures, Algorithms, Web Development, Big Data, Machine Learning, Information Retrieval
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, PHP, Vue.js, MySQL, PostgreSQL, DynamoDB
Tools and Frameworks: AWS, Docker, MapReduce Programming Model, 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 **micro-services and REST APIs using Golang** for retrieval of 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
Applied Machine Learning and Computer Vision Research Intern *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 Web Application 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.

Data Pipeline for Software Engineering Optimisation
Tech Stack: Python, Jupyter Notebook, AWS | Data Pipeline *October 2019 - December 2019*

- Implemented a Data Pipeline that captures software engineering metrics from Atlassian Jira and Github as well as applies Logistic Regression on the data to successfully predict developer satisfaction with an accuracy of 90.9 percent.