Sriram Venkatachalam Ramaswamy

3025 Royal St, Apt 253, Los Angeles, CA 90007
(213) 453-2725 · sriramve@usc.edu · https://skeletrox.github.io

EDUCATION

University of Southern California, Los Angeles - *MS in Computer Science (Computer Networks)*

AUGUST 2019 - JUNE 2021

- Fall 2019 Courses - Foundations of Artificial Intelligence [CSCI 561], Analysis of Algorithms [CSCI 570]

REVA University, Bengaluru, India - *B.Tech in Computer Science and Engineering*

AUGUST 2014 - JUNE 2018   **GPA 9.03/10**

- Co-Founder, GLUG-REVA, an association for Open-Source skill development
- Speaker, REVA University Skill Development Program
- Vice Chairperson, REVA Association for Computing and Information Technology

TECHNICAL SKILLS

- **Programming Languages**: Python, Go, JavaScript, Java, C, C++, MySQL, InfluxQL, TickScript
- **Frameworks**: NumPy, Scikit-Learn, Tensorflow, Keras, Pandas, Django, Node.JS, React, Redux
- **Tools and OS:** Git, Linux

EXPERIENCE

Aikaan Labs, Bengaluru - *Network Analytics Engineer*

JULY 2018 - JUNE 2019

- Built end-to-end Machine Learning systems for predicting system and network behavior with a convolutional neural network using Go, Python, Tensorflow, Scikit-Learn, InfluxDB and Telegraf
- Built a pluggable telemetry collection mechanism on container-based systems such as Docker using Go.
- Worked with entities like Indian Institute of Science and Electronics City Industrial Township Authority to develop and deploy telemetry collection mechanisms for WPA2-Enterprise networks

NutLabs Creations Pvt. Ltd, Bengaluru - *Javascript and Machine Learning Development Intern*

NOVEMBER 2017 - JUNE 2018

- Built full-stack Javascript applications using Node.JS, JSX, React and Redux.
- Designed SQL Databases and schemas, and programmed Javascript connectors for the same
- Built a multi-class classifier and network predictor employing GRUs using Tensorflow, Packetbeats and fuzzy logic for classifying network usage

NutLabs Creations Pvt. Ltd, Bengaluru - *Backend Development Intern*

JUNE 2017 - JULY 2017

- Built MVC-based models for servers dealing with content-delivery in remote areas using a Raspberry Pi
- Designed and programmed rudimentary front-end applications using Javascript, HTML and CSS.

CERTIFICATIONS

- Oracle Certified Associate in Java Programming SE8
- NASSCOM Certified Software Professional

PROJECTS

GPU Usage Predictor and Alerter

AUGUST 2019 - PRESENT

- Employs time-series learning and the Telegram Bot API to easily identify over-exertion of GPUs and send a telegram message to the user with a list of applications that were using it
- Contains a Graphing endpoint that returns a time-series graph on-demand as a Telegram message.

Databreaks

JANUARY 2019 - PRESENT

- Parses SQL queries to create a parsed graph in order to allow for efficient translation to other query languages

ResQoS - Resource-Centric QoS

JULY 2018

- A fully automated SDN that automatically allocates bandwidth based on the resource accessed with no human intervention
- Presented at CyPhysS 2018, Robert Bosch Center for Cyber Physical Systems, Indian Institute of Science.

OpenRAP

JANUARY 2018 - JUNE 2018

- Content-Delivery Network running on Raspberry Pi using NodeJS, React and Redux.
- Used by Government of Karnataka and various NGOs around Karnataka and Tamil Nadu for rural education and in areas with limited connectivity

PUBLICATIONS

- OpenRAP - A Distributed, Scalable, Offline CDN - International Journal of Advances in Computer Science Research, May 2018 [ISBN: 978-93-5311-910-2]