Shanmukha **Saketha Ramanujam** S

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EDUCATION

Arizona State University, Tempe, AZ
MSE in Electrical Engineering
Expected Graduation: Fall 2022

GVPCE(A), Visakhapatnam
B. Tech. in ECE
Graduation: 2019
Cumulative GPA: 7.92 / 10

Sri Chaitanya, Guntur
Intermediate
Percentage: 96.2

SRI VENKATESWARA BALA KUTEER, Guntur
Secondary School
GPA: 9.5

COURSEWORK

Signals and Systems
Digital Signal Processing
Data Communication Networks
Data Structures and Algorithms
Random Variables and Numerical Methods

SKILLS

Programming and Software:
Python • MATLAB • Shell
Git • HFSS • Flask
Docker • JS
Apache Airflow • JS • C
Machine Learning with Scikit Learn
Deep Learning with Keras

Microcontroller/processor(s):
Arduino • Beagle-bone •Raspberry Pi

VOLUNTEERING

Mentor, AI-Club, GVPCE, 2018 - 19
Club Coordinator, College Cultural Club, 2017 - 18
Volunteer, NSS Unit -II GVP, 2017 - 19

EXPERIENCE

Google Summer of Code Mentor 2020, Beagleboard.org
April 2020 – August 2020 | Remote
- Co-mentored a project about implementing a bidirectional-bus using pocket-beagle device to add additional I/O capabilities using PRU based architecture.

Project Associate, Scientific and Industrial Research Centre, GVP
December 2019 – December 2020 | Visakhapatnam, IN
- Responsible for development and deployment of Machine Learning for classification and analysis of opto-electronic sensor data.
- Devising and conducting experiments for Vibrational analysis of structures using opto-electronic instruments
- Development of signal processing software algorithms for in-laboratory systems.

Software Engineering Intern, Rorodata Technologies
June 2019 – November 2019 | Bangalore, IN
- Developed and tested performance of machine workflows in Apache Airflow.
- Responsible for handling CI, deployment, and maintenance of services on Google Cloud Platform using services such as Gcloud Build and GitHub actions.
- Developed DataBot, a client library for using internal API's
- Performance and Load tested applications using Gcloud App Engine and Gcloud App Run
- Developed and Maintained a tool for managing datasets used for market forecast analysis.

SELECTED PROJECTS

CPCB CCR Client   Python
Python client to download central pollution control board data.

N.a.a.S. Docker   Docker | Jupyter Notebook | Python
Dockerized Jupyter notebook setup to allow multiuser access on local networks.

Snapi Launch Notif Server   Mongo| Discord| Python
Launch notification generator for Discord using Space flight news API

Wireless Data Monitor   Socket Programming| Networking | Python
A socket communication system for sensor data transfer from Raspi to a remote server.

Gaze Point Heat Map   CV | Image Processing | Python
Viewpoint tracking and heatmap generation application using OpenCV

Build Run Multiple   Web | GCP | Microservices
POC for serving multiple applications from same repo using Google Cloud Build Triggers

AWARDS AND RECOGNITIONS

GitKraken Ambassador | March 2019

GitHub Campus Expert | September 2018

Second Runner up, Game Design and Prototyping Competition by Unity India | November 2018

National Finalist (Top 45), L&T Technology Services – Techgium Competition | April 2018