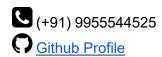
RAJ KUMAR





Experience

Mavenir Systems

Manyata Embassey Business Park, Nagavara, Bangalore. Member of Technical Staff-1, July-2019 - Jan 2021

IMPLEMENTED AMF CONNECTION FALLBACK IN 5G TECHNOLOGY

Dec 2020

Implemented fallback mechanism to handle AMF (Access and Mobility Management Function) failure:

- Primary fallback: Look for secondary AMF instance in current context, if free, establish a connection.
- Secondary fallback: If no primary AMF found, look for any free AMF instance in NRF.
- If no AMF found, terminate and re-establish a new connection.

CHARGING FUNCTION SELECTION MODULEJan 2021

- Designed and developed CHF selection algorithm
- CHF Responsible for monitoring, reporting and charging the amount of data consumed by a user
- Each user session is mapped with a unique id to CHF.
- The algorithm depends on various parameters from session and other services like UPF(user plane function), PCF(policy control function) and NRF

Education

B.E.(CSE)

MVJ College of Engineering, Bangalore 2015-2019

Schooling(10th & 12th)

Krishnanand Memorial Academy, Bihar

Interests

Cricket, Cooking, Cyber Security.

Tech Skills

Programming Language: Python, JavaScript, C++, java.

Backend development: NodeJs, ExpressJS, REST API, Django

Data Processing and Storage: MongoDB

Frontend development: HTML/CSS, JavaScript, ReactJS.

Micro Projects

mindYourFood

Jan 2021

A web application which allows users to track daily calorie intake and notify when the daily limit is breached. Used jade, ExpressJS, NodeJS and MongoDB.
[GitHub link]

E-Commerce

Nov 2020

An e-commerce web application that allows searching, product filtering, tracks time spent on a product by a user. It also stores the last 10 searches.

[GitHub link]

Social media app

Jan 2020

A social media site for users where the users can create/edit/delete a post, post a comment, like/unlike a post, visit a user's profile and follow/unfollow a user. The project was powered by ReactJS, nodeJS, expressJS and mongodb.

GitHub link

Personal Portfolio

Nov 2020

A web based static resume of myself using HTML and CSS.

GitHub link

Courses

Data structures and Algorithms, Object Oriented Design, System Design, Web Security, Computer Networks, OS.