SAGAR M C

BACKEND DEVELOPER

CONTACT

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https://mc-sagar.github.io/portfolio/

Bangalore, Karnataka

SKILLS

NodeJS, JavaScript

SQL, NoSQL

Python, Java

EDUCATION

SJB Institute of Technology, Bangalore - B.E

2016-2020 | Information Science

ASC Independent PU College, Bangalore — Pre University

2014-2016 | Computer Science

ACHIEVEMENTS

1st position in U-Hackathon 2.0 (UPES, Uttarakhand)

2nd Runner Up in Sentinel Hack 2.0 (KSIT, Bangalore)

1st place in Makers Fair (JSS, Bangalore)

INTERNSHIP

Indian Institute of Astrophysics, Bangalore

Launching of a High Altitude Weather Balloon.

PROFILE

As a backend developer with a passion for building scalable and reliable systems, I have gained valuable experience through my work on the Africar ride-hailing platform, which serves an active user base of 1.5L+ in Nigeria. In addition to my technical skills, I have a strong track record of success in hackathons, including wins at the national and state level. I have also interned at the Indian Institute of Astrophysics, where I gained valuable experience in a research setting. I would like to work with an organization to achieve professional and financial heights for both organization and self. You can learn more about my work on my portfolio website.

WORK EXPERIENCE

Backend Developer

Humanoid Systems Private Limited — 2020 - Present

- Developed the backend for Africar using Serverless architecture - FASS - Cloud Functions - GCP, Firebase, and NodeJS.
- Built and maintained RESTful APIs, Database Trigger functions, and Scheduler Functions for Africar client apps such as rider app, driver app, admin panel, and as well as a website for booking rides.
- Implemented RBAC, war room, logs generation, a coupon system, and a wallet system for users, among other features.
- Integrated payment gateways such as Flutterwave and Paystack for Africar's payment system.
- Utilized various cloud services such as AWS Lambda, Docker, RDS, VPC, Cloud SQL and API Gateway, as well as Azure Functions and Prisma NodeJS ORM, to develop and deploy scalable and secure solutions for various projects within the company.

PROJECTS

Cosmic Ray Particle Detector

- Detecting primary and secondary cosmic rays at higher altitudes using a high-altitude weather balloon.
- Designed and developed an algorithm using Raspberry Pi and multiple cameras to capture images of cosmic rays.
- Keywords: OpenCV, Python, Raspberry Pi, Sensors, Pi Camera

NorthStar and Haptic Feedback Glove

- Designed and fabricated a 3D printed AR headgear with a semi-reflective lens, dual LCD displays, and a Leap Motion camera.
- Developed a haptic feedback glove that enables users to feel the sensation of touch when interacting with virtual objects.
- Keywords: Unity3D, Leap Motion, Arduino, C++

Prosthetic Arm

- Designed and developed a 3D printed Prosthetic Robotic Hand capable of responding to muscle movements in the residual limb.
- Programmed the Arduino microcontroller to precisely control the movement of the hand's servo motors, resulting in life-like hand movements.
- Keywords: Arduino, C++