

GAGAN S

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Education

Dayananda Sagar College of Engineering

B.E in Information Science and Engineering | CGPA: 9.7

Sep. 2020 – Present

Bangalore

Indian Institute of Technology, Madras

B.Sc in Data Science and Programming | CGPA: 7.2

January. 2021 – Present

Remote

St. Claret Pre-University College

PCMB | Percentage: 95

2020

Bangalore

Standard Public School

ICSE | Percentage: 94.4

2018

Bangalore

Experience

Nokia

April 2023 – September 2023

Automated UT Generation Researcher

Bangalore, Karnataka

- Worked on the project, Automatic UT generation using AI/ML for languages: C, C++ and Python, through a University Connect Programme.
- Developed scripts that generate a unit test file for any provided source file.
- The developed script was capable of performing variable, function, and object mocking for the given input file.

Technical Skills

Languages: Python, Java, HTML/CSS, JavaScript

Technologies/Frameworks: ReactJS, ExpressJS, NodeJS, React Native, MongoDB, AmazonRDS, MySQL, Flask, Jinja2, Bootstrap, Tailwind CSS

ML Libraries(Basics): Scikit-Learn, Tensorflow, Keras, OpenCV

Developer Tools: VS Code, Eclipse, Git, Jenkins, Docker, Postman, Ansys, OpenVSP

Projects

Track Leaf | MongoDB, ExpressJS, ReactJS, NodeJS

Hack X Hackathon - GitHub | Website

- Developed an effective inventory management system for ensuring the seamless flow of resources while optimizing costs and reducing waste.
- Generated unique IDs and associated them with QR codes to enable precise tracking of inventory.
- Implemented a robust role-based access control system with JWT token authentication and employed data visualization through graphs to provide insightful inventory representations.

LearnZ | Python, Django, SQLite3, Docker, Jenkins, AWS

GitHub | Website

- Developed a comprehensive E-learning platform for students and educators, featuring organized study materials and utilizing NLP for auto-recommendations of relevant YouTube resources.
- Implemented role-based access control for teachers and students, ensuring a secure and personalized learning experience.
- Incorporated a robust learning management system with features like quizzes, syllabus management, and online lecture delivery to enhance the educational experience.

Ticket Booking Application | Python, Flask, Jinja2, SQLite3

GitHub | Website

- Developed a comprehensive event management platform with the ability to create, update, and search for shows and venues, implement separate admin and user logins and enable user profile updates.
- Implemented a popularity rating system for shows and venues, allowing users to provide ratings for the shows they attended.
- Utilized Chart.js to create visual representations of user ratings for movies and shows, offering insightful data to the admin for informed decision-making and enhanced content management.

Organ Procurement Network | Python, Flask, Jinja2

GitHub | Website

- A web application that aids hospitals in organ transplantation.
- Hospitals will be able to request for a required organ and the hospitals with the required organ will be displayed according to their distance. Surplus organs in a hospital can also be updated in the database.
- Dijkstra's algorithm is used to sort the distances from the selected hospital.

Leadership / Extracurricular

Genesis Student Forum

September 2022 – Present

Team Lead

- Initially served as a Technical Team Member for nearly two years and was subsequently elected as Team Lead for the Student Forum.
- Successfully organized and executed multiple impactful events, including blood donation camps, dental camps and several other socio-cultural.
- Led the planning and execution of two 24-hour hackathons called "Hackman," fostering innovation, collaboration, and technical skill development among participants.

Team Arcis

October 2021 – March 2022

Technical Team Member

Certificate

- Served as a member of the technical team at Team Arcis.
- Took on the responsibility of selecting the propulsion system and avionics that best suited the project's requirements.
- Participated in the AIAA 2022 DBF Competition, achieving a global ranking of 19th for the Technical Design Report in the competition.