

ISHAN DUBEY

Bengaluru, Karnataka

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Education

Ramaiah Institute of Technology

Bachelor of Engineering, Computer Science

CGPA: 8.98/10. Graduated with distinction.

Aug 2019 – May 2023

Bengaluru, Karnataka

Indore Public School

CBSE, XII

76.6%

Apr 2016 – May 2018

Indore, Madhya Pradesh

Delhi Public School

CBSE, X

CGPA: 10/10. Graduated with distinction.

Apr 2015 – Mar 2016

Jabalpur, Madhya Pradesh

Technical Skills

Languages: Python, C++, Java, SQL, Bash

Developer Tools: Docker, Postman, Visual Studio Code

Technologies/Frameworks: Linux, Git, Openstack, PyTorch

Internships

Infrastructure Development Corporation, Karnataka (iDeCK)

Software Engineer/Tester Intern

Jan 2023 – May 2023

Bengaluru, Karnataka

- Developed and deployed an inventory management and food order tracking application for street vendors using Axpert, a low-code platform.
- Reduced the database search time by applying search query optimization in the PostgreSQL database.
- Created test cases for a tourism information system for popular tourism spots in Karnataka. Improved the reliability of the project by performing unit, function, and integrity tests.
- Prepared the System Requirement Specification (SRS) and Functional Requirement Specification (FRS) for upcoming and ongoing projects undertaken by the team.

Projects

Private Cloud Setup and Administration | C++, Openstack, Docker

Jan 2023 – May 2023

- Built a multi-node private cloud from scratch using Openstack, then deployed it on baremetal servers in the Department of CSE, RIT.
- Provisioned virtual machines to host and offer a lab testing software as a service to tenants.
- Stress tested the architecture by conducting actual assessments of 80 students in real time. Used the collected data to fine tune the cloud architecture.
- The project was funded by Vision Group on Science and Technology (VGST), Karnataka.

Virtual Lab Assistant | Python, Manim

Jan 2022 – May 2022

- Animated concepts from Data Structures and Fundamentals of Computing for a virtual lab assistant using Manim, for use within the Department of CSE, RIT.
- Used FFmpeg to generate explanation videos of the topics iteratively from Python scripts.
- Integrated the animations with the MERN-based lab assistant using YouTube Data API.

Trivia Question Data Prediction | Python, scikit-learn

November 2021

- Created a machine learning model that produces an approximate monetary value corresponding to a short trivia question for game shows like Jeopardy!
- Applied Natural Language Processing to the questions using NLTK to preprocess input data.
- Compared the performance of various learning models and explored real-world applications of the project.

Leadership / Extracurricular

TEDxMSRIT

Head of Content

Sept 2022 – Feb 2023

Ramaiah Institute of Technology

- Led a team of 60 volunteers to work on content-related responsibilities for TEDxMSRIT.

ASME/Boeing AM 3D Aero Conference

Dec 2022

Student Coordinator (Cultural), Anchor

Ramaiah Institute of Technology

- Coordinated with the student volunteers and the organizing committee for the cultural section of the event.