



# Dhruv Dange

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## EDUCATION

Bachelor of Engineering (B.E) in Information Science and Engineering  
Ramaiah Institute of Technology

Dec. 2020 - Present  
CGPA: 9.20

## WORK EXPERIENCE

### AR/VR Development Lead

Metastart, Bangalore

Aug. 2022 - Mar. 2023

Part-time

- Led a cross-functional team to deliver a complex AR project within a tight deadline of 2 months.
- Utilized cutting-edge AR technologies to create immersive and interactive experiences, resulting in a 95% satisfaction rate among users.
- Utilized ReactJS and ThreeJS to create applications for clients within the WEB3 Ecosystem.

### Web Developer

SISA Consulting, Bangalore

Apr. 2020 - Jun 2020

Part-Time

- Successfully conceptualized, created, and launched a company website featuring an E-Learning platform.
- Achieved a traffic increase of more than 20% and a significant improvement of over 15% in E-Learning course satisfaction within 2 months of implementation.
- Applied a thorough understanding of company requirements and policies to develop a customized website design that perfectly aligned with the business's objectives.

### Intern

CISCO, Bengaluru

Jul. 2018 - Jan 2019

Internship

- Led a team of 6 to work under supervision of CISCO mentors to develop application to help community.
- Created platform for effective communication between apartment residents with messaging portal, payments portal and admin section.
- Developed important skills required to work in team and communicate efficiently with team members and mentors.

## PROJECTS

### OurVision - An assistive device for the visually impaired

Tech Stack: Computer Vision, Machine Learning

- Designed and developed hardware glasses that help the visually impaired.
- Performs real-time object detection, text recognition and translation to local dialects.
- Developed the glasses at a cost 90% lower than similar counterparts.

### Portfolio Website

Tech Stack: Node + ThreeJs

- Designed and created my portfolio website using ThreeJs, Blender and GLSL.

### COSMIC PURSUIT - Contest Platform

Tech Stack: Backend: Node, ExpressJs Frontend: React, ChakraUI

- Cosmic Pursuit was an on-campus treasure hunt organized by RIT S.T.A.R.D.U.ST on 10th Jun, 2022. The event witnessed around 150 participants in the form of 50+ teams.
- Created the platform for the treasure hunt along with a live leaderboard in order to make the hunt more interactive and engaging.

### Privacy preserving machine learning using zkSNARKs

Tech stack: Circom, Node.js, React.js, Solidity

- Used zkSNARKs to create proof of valid machine learning computations, and valid data and models
- Used groth16 proving system
- Acts as an additional scalability layer for homomorphic machine learning

### Discord Bot

Tech Stack: Python, Axios, bs4

- Built a fully functional discord bot to manage a server, play audios and display jokes from the internet using web scraping.

### Secure Decentralized File sharing

Tech stack used: Python, React, Solidity, JavaScript

- Created an application which allows for peer to peer file sharing
- The access can be granted and revoked by the file owner, in a privacy preserving manner
- It uses proxy Re-encryption to ensure file security
- Applications include medical data sharing and ownership, sensitive document sharing, etc.

## SKILLS

Languages and Frameworks: C/C++, JavaScript, Python, Java, Node.js, ReactJs, Django, Wordpress, Flutter, ThreeJS

Infrastructure and Distributed Systems: Operating Systems, Google Cloud, Linux

Graphic Design and Modelling: Adobe PremierPro, Blender, Figma, Autodesk Fusion360

Database Management: MongoDB, SQL, MySQL, Firebase

Problem Solving: Data structures and algorithms, Linear Algebra

Data Science and Machine Learning: Supervised and Unsupervised Machine Learning

Tools: Git, GitHub, Robotic Operating System (RoS)

Other Skills: Project Management, Operation Research

## ACCOMPLISHMENTS

Smart India Hackathon 2022 Finalist

Aug. 2022

3rd Place in Unisys UIP 2023: Secured 3rd place amongst 700 candidates

Jun. 2023

Finalist EthIndia 2022 :Top 400 from a pool of around 20,000 candidates

May. 2023

Finalist Centuriton 2022: Top 75 from a pool of 2500 applicants

Dec. 2022

IEEE CIS Ramaiah Institute of Technology- Chair

Jan. 2023