

# BHASKAR JOSHI

International Institute Of Information Technology, Hyderabad

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## EXPERIENCE

### COSSINE LABS

#### Backend Developer

Jan 2021 – Apr 2021

- Designed and developed the first version of a **mobile application** ShoutOut (Instagram-like) , that allows users to create and share posts anonymously.
- Implemented features such as user registration, login, OTP verification, post creation, comments, likes, user rating, chat, and content moderation.
- Used **Flask** (for backend framework) , **Firebase Cloud Firestore** (for database) and **Amazon Comprehend** (for NLP).

## ACHIEVEMENTS

- In **Deans List** for excellent performance in **Monsoon** and **Spring 2020-21**
- Teaching Assistant for **Machine, Data and Learning** in Spring 2021-22
- Tester for **Codeforces Rounds 676, 682, 699** and **Global Round 11**

## PROJECTS

### GrabCut | Python

- Interactive Foreground Extraction using GrabCut Algorithm for foreground extraction with minimal user interaction
- Experimented with algorithm for better understanding

### Solving Jigsaw Puzzles | Python

- Implemented a self-supervision approach that relies on jigsaw-like puzzles as the pretext task in order to learn image representations.

### Raft | Go

- Implemented Raft, a replicated state machine protocol containing Raft leader election and heartbeats , log (the leader and follower code to append new log entries)

### C-Shell | C, OS System Calls

- A bash like **shell** made using C language with functionality of cd, pwd, echo, ls, history, CPU and Processtracking and controlling commands, & ( background process ), redirection, pipelines, signal handling,command-chaining etc.

### Implemented Mobile Robotics Algorithm | Python , g2o

- Implemented Stereo SLAM, Occupancy Maps. Pose graph optimization for SLAM from scratch. Implemented Iterative Closest Points (ICP)

### Job Application portal | MERN Stack

- Built a local hosted Job Application portal using Mern-Stack. Role based authorization authentication i.e. Applicant Recruiter. Applicants can submit their CV SOP for their dream job. And Recruiters can shortlist, accept or reject their application accordingly.

## EDUCATION

B.Tech.Hons in Computer Science + MS by Research - 9.17 CGPA (till 5th Sem)

### International Institute Of Information Technology, Hyderabad

Aug 2019 – Currently

Undergraduate Researcher at Robotics Research Center (RRC)

Intermediate - 96.2%

### Nirmala Convent Sr. Sec. School, CBSE

2018

Nainital

High School - 10 CGPA

### Nirmala Convent Sr. Sec. School, CBSE

2016

Nainital

## COURSEWORK

- Computer Vision
- Statistical Methods in AI
- Machine, Data and Learning
- Distributed Systems
- Mobile Robotics
- Robotics: Dynamics and Control
- Data Structures Algorithm
- Automata Theory, Algorithm Analysis & Design
- Discrete Structures, Linear Algebra and Probability
- Operating Systems
- Data and Application (with basic SQL)
- Design and Analysis of Software Systems

## SKILLS

### Programming

- C/C++, Python, Go, HTML5, CSS, JavaScript, Shell Scripting, ROS

### Framework and Database

- Flask, MongoDB, MySQL

### VCS and Build Tools

- Docker, Git, Linux

## LINKS

- Codeforces : [Bhaskar Joshi](#)
- CodeChef : [Bhaskar Joshi](#)