

Tanuj Agarwal

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EDUCATION

IIT JODHPUR

BTECH IN COMPUTER SCIENCE
Expected 2022 | Jodhpur, India
CGPA 8.76/10 (upto 6th sem)

DON BOSCO, PANBAZAR

CLASS 12 | CBSE
2018 | Guwahati, India
Percentage: 93.6%
CLASS 10 | CBSE
2016 | Guwahati, India
CGPA: 10/10

LINKS

Github:// [Tanuj22](#)
Portfolio:// [tanuj22.github.io](#)
LinkedIn:// [tanujagarwal22](#)

COURSEWORK

UNDERGRADUATE

Object Oriented Analysis and Design
Data Structures and Algorithms
Software Engineering
Operating Systems
Computer Networks
Database Systems
Artificial Intelligence
Introduction to Game Theory

SKILLS

PROGRAMMING

• C/C++ • Python • JavaScript
• C# • Solidity • SQL

WEB

• Django • NodeJS • Strapi
• VueJS • ReactJS • GatsbyJS

TECHNOLOGIES

• Git • Linux Shell Utilities
• Kubernetes(basics)
• Docker
• Continuous Integration
• Netlify
• PostgreSQL

EXTRACURRICULAR

• CDC - Web Development Head
• IGNUS - Web Development Head
• Core Member - DevUp Labs
• FRAME-X - Vice Captain

EXPERIENCE

MICROSOFT | SOFTWARE ENGINEER INTERN

May 2021 - July 2021 | Azure Compute | OneFleet AutoPilot

- Worked on AutoPilot, a service management tool used for management of internal services running on data centers.
- Design and Implemented a service for migration of machine functions from bare metal physical machines to windows containers.
- Used C#, CLI and Source Depot.

LAYER5 | SOFTWARE ENGINEER INTERN | MAINTAINER

Sept 2020 - April 2021 | [GitHub](#)

- Worked on creating an visual topology for interacting with service meshes in the Meshery Project using CytoScapeJS.
- Created and a new [website](#) for the Layer5 organization using GatsbyJS.
- Worked as a [MeshMate](#) to help new contributors.

CREATIVE COMMONS | COMMUNITY TEAM MEMBER

- Contributed to various Repositories of the organization.[GitHub](#)
- Project Collaborator for [CC Search Frontend](#) and [Vocabulary](#)
- Implemented REST API Endpoints for Oembed Response and Reporting Images in [CC Search API](#)

PROJECTS

AUTOMATIC GENERATION OF INFOGRAPHICS | B.TECH PROJECT

Mentor: Dr Chiranjoy Chattopadhyay | [Github](#) | [Demo Video](#)

- A framework for Automatic Generation of Infographics from Text.
- Generated own data set using data augmentation and used DistilBERT as the backbone of the project.
- Integration of modules via Flask API.
- Used ReactJS for creation of Infographics.

PHOTOGRAPHIC CLASSROOM ATTENDANCE | B.TECH PROJECT

Mentor: Dr Anand Mishra | Open Sourced, [GitHub](#) | [Demo Video](#)

- Web portal for taking attendance of a classroom using face recognition.
- Experimented with MTCNN, LightCNN, FaceNet, ArcFace for face detection and face matching.
- Achieved an accuracy of 96.67%.

CDC PORTAL | PORTAL FOR STUDENT PLACEMENTS, IITJ

Deployed at [spc.iitj.ac.in](#) | Open Sourced, [GitHub](#)

- Project Maintainer of the portal to automate and streamline end to end placement procedure of 1000+ students and recruiters in 2019-21.
- Worked with a team of 5 programmers and 50+ core members.

IGNUS | PORTAL FOR ANNUAL COLLEGE CULTURAL FESTIVAL, IITJ

Deployed at [ignus.org](#)

- Portal for registration and management of 4000+ attendees in College Fest.
- Collaborated with 3 other programmers, under a core team of 40+ people.

HILL CLIMBING VISUALIZER | AI COURSE PROJECT

Open Sourced,[GitHub](#)

- Implemented various hill climbing algorithms on real geographical plane using Google Maps.