

Anshul Ahuja

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EDUCATION

IIT JODHPUR

B.TECH. IN COMPUTER SCIENCE
& ENGINEERING

Expected 2021 | Jodhpur, India
GPA: 8.67/10 (upto 5th sem)

DPS DWARKA

CLASS 12 | CBSE

2017 | New Delhi, India
Percentage: 95%

LINKS

Github:// [anshulahuja98](https://github.com/anshulahuja98)

LinkedIn:// [anshul-ahuja](https://www.linkedin.com/in/anshul-ahuja)

Medium:// [@anshul.ahu](https://medium.com/@anshul.ahu)

Google Scholar

UNDERGRADUATE

Object Oriented Analysis & Design

Data Structures & Algorithms

Software Engineering

Operating Systems

Algorithm Design and Analysis

Quantum Information

Computer Networks*

Database Systems*

Artificial Intelligence*

Financial Engineering*

* Ongoing Courses

SKILLS

PROGRAMMING

• C/C++

• C# • Python • Javascript

WEB

• Django (Python)

• MySQL • PostgreSQL

• REST

• HTML/CSS • Bootstrap

TECHNOLOGIES

• Git • Linux shell utilities

• Raspberry Pi

• Azure(Blob, Cosmos etc)

• Azure Functions

• Docker

• Kubernetes & AKS

INITIATIVES

Spearheaded the growth of open-source enthusiasts' student group [Devup Labs](#) at IIT Jodhpur. Conducted and hosted sessions and webinars on various technologies for students. Launched and mentored 10+ projects.

EXPERIENCE

MICROSOFT | SOFTWARE ENGINEER INTERN

May - July 2020 | Azure Backup

- Developed an E2E mechanism for taking App Consistent backups of workload associated CSI PersistentVolumes and cross cluster restore in Kubernetes(AKS).
- Made contributions to the Azure Disk CSI driver.

MICROSOFT | SOFTWARE ENGINEER INTERN

May - July 2019 | MSIDC Hyderabad | Azure Backup

- Developed complete Backup and Restore solutions for PaaS (Azure hosted) Open-source databases(PostgreSQL, MariaDB)
- Experimentation using **Azure functions (serverless)** as hosting environment.

FREELANCING | UPWORK

- Custom work on Kubernetes Dashboard for client on [Upwork](#)

OPEN SOURCE CONTRIBUTOR | GITHUB

- Contributed to various open-source repos, merged PRs [Github](#)
- Contributions to [kubernetes/dashboard](#)

PROJECTS

BTECH PROJECT (*ONGOING) | FEDERATED LEARNING EDGE-IOT INFRA

Mentor: Dr Suman Kundu

- Developing a distributed machine learning framework (federated learning) based on tensorflow federated to facilitate Edge enabled low power devices.

BTECH PROJECT | DISTRIBUTED SYSTEMS | OPEN SOURCE CONTRIBUTION

Python Library [PyPI](#) | Published [IEEE](#) | Mentor: Dr Subhajit Sidhanta

- Poster Title: 'Edge Applications: Just Right Consistency' presented in (SRDS) 39th IEEE International Symposium on Reliable Distributed Systems(Core-A) 2019 at Lyon, France. Published on IEEE
- Developed an open-source python library for supporting Conflict-free Replicated Datatypes(CRDTs) hosted on Python's package manager (PyPI).
- Contributed to open-source efforts of AntidoteDB by creating **kubernetes based deployment** for it. **K8s deployment** forked by Antidote

SPC PORTAL | MVC BASED PORTAL FOR STUDENT PLACEMENT CELL

Deployed at [spc.iitj.ac.in](#) | Open-Sourced [Github](#)

- Developed portal in **Django (Python)** to automate and streamline end to end placement procedure for 900+ students and recruiters in 2018-20.

DISASTER CHAIN | IOT | MICROSOFT AXLE 2019

Demo Video [Youtube](#) | Open Sourced [Github](#) | News Article [TOI](#)

- A distributed IoT solution built using Raspberry Pi & Node MCUs for disaster detection & early warning systems for cloud offloading of disaster management.
- Trained a model using **Azure Custom Vision service** exported to Android app to predict skin diseases from pictures offline.

FINANCIAL ENGINEERING | GITHUB | GITHUB

- Experimented with various market technical indicators whilst developing a new indicator backtested on market data.
- Portfolio optimization of tech stocks listed on NASDAQ.

ACHIEVEMENTS

2019 Runner up, Microsoft Code.Fun.Do++ at IIT Jodhpur

2019 2nd Runner up, Microsoft AXLE (Code.Fun.Do++ National) out of 21 teams
Prize money 1 Lakh INR and 5000 USD Azure Grant under AI for good initiative

2018 Winner, Microsoft Code.Fun.Do++ at IIT Jodhpur

2018 National finalists in Microsoft Imagine Cup, India

2018 2nd Runner up (OnCampus Round) Microsoft code.fun.do OnCampus hackathon

2018 Finalist (Online) top 3 teams out of 53 teams, Microsoft Code.Fun.Do

2016 KVPY Scholar Kishore Vaigyanik Protsahan Yojana (KVPY) SX Scholar

HOBBIES

- SpeedCubing Enthusiast
- Tech Blogger Medium: @anshul.ahu
- Swimming

POSITIONS OF RESPONSIBILITY

- **STUDENT PLACEMENT CELL** | WEB DEVELOPMENT HEAD
- **QUIZ CLUB** | CAPTAIN
- **IGNUS INTER COLLEGE FEST** | WEB DEVELOPMENT HEAD

EXTRACURRICULAR

- Participated in inter **IIT-IIM Quiz** Nihilanth'18 at **IIM Ahmadabad**
- Participated in **Inter IIT Cultural Meet** '19 at **IIT Roorkee** and '20 at **IIT Bombay**
- Conducted various sessions/talks for freshmen & sophomores at IITJ on version control, automation, IoT etc.