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
LinkedIn:// anshul-ahuja
Medium:// @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

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.

DEVLUP LABS | Co-founder & Lead | Website ⎋
2018 - Present | IIT Jodhpur

- Spearheaded the growth of **open-source enthusiasts'** student group at IIT Jodhpur, organising and hosting sessions/webinars on various technologies.
- Mentored a team of **25+ students** managing **10+ projects** from ideation, design, development to deployment

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)
- 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 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.

HOBBIES

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

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

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.