Anshul Ahuja

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EDUCATION

IIT JODHPUR
B.Tech. in Computer Science & Engineering
Minor: Management
Expected May 2021 | Jodhpur, India
GPA: 8.83/10 (upto 6th sem)

DPS DWARKA
Class 12 | CBSE
2017 | New Delhi, India
Percentage: 95%
Class 10 | CBSE
2015 | New Delhi, India
Percentage: CGPA 10/10

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

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**

CONFERENCES/SEMINARS
- KubeCon + CloudNativeCon Europe 2020
- Microsoft AXLE 2019
- 35th AAAI Conference on Artificial Intelligence 2021

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 **30+ students** managing **15+ projects** from ideation, design, development to deployment.

FREELANCING | Upwork ⬈

- Custom work on Kubernetes Dashboard for a US-based startup client.

OPEN SOURCE CONTRIBUTOR | Github ⬈

- Contributed to various open-source repos, merged PRs Github ⬈
- Contributions to kubernetes/dashboard ⬈

PROJECTS

BTECH PROJECT | Federated Learning Edge-IoT Infra
Mentor: Dr Suman Kundu

- Prototyped serverless approach for a highly scalable infra for Federated Learning oriented around IoT/Edge Devices. Aimed at the infra being easily deployable to public cloud platforms to democratize distributed machine learning.
- Published in Student Abstract track of 35th **AAAI Conference on Artificial Intelligence 2021**

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.

VOTING VADER | Blockchain | IoT | Microsoft Code.fun.do++ '19
Demo Video Youtube ⬈ | Open Sourced Github ⬈

- An **IoT based EVM** built on Raspberry Pi using **Azure Blockchain Service** as the backend serving through REST APIs and hardware authentication using RFID.

ACHIEVEMENTS

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
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.