

Aditya Dubey

Pune, India | +91 8949400509 | aditya.d2676@gmail.com | linkedin.com/in/aditya-dubey | github.com/adityacodes-root |
https://ad1tya.me

SUMMARY

Computer Science undergraduate and Software Engineer with internship experience at the Indian Space Research Organisation (ISRO) and Jio Platforms Ltd. Experienced in Python, SQL, Kubernetes, Docker, cloud computing, Infrastructure as Code (Terraform), CI/CD pipelines, and REST API development. AWS Certified Cloud Practitioner and AWS Cloud Club Captain, mentoring 200+ students in cloud computing and software engineering.

EDUCATION

D Y Patil International University

Bachelor of Technology in Computer Science & Engineering

2023 – 2027

Pune, India

- Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems (DBMS), Operating Systems, Cloud Computing, Computer Networks, System Design

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL

Cloud Platforms: AWS, GCP

Container Orchestration: Kubernetes, Docker, Helm

CI/CD and IaC: GitHub Actions, Terraform, Infrastructure as Code (IaC)

Observability: Prometheus, Grafana, Loki

Databases: PostgreSQL, MySQL, MariaDB, MongoDB

OS and Tools: Fedora Linux, Bash, Git, VS Code, Vim, Postman

INTERNSHIP EXPERIENCE

Indian Space Research Organisation (ISRO), Space Applications Centre

Research Intern – Cloud and DevOps Engineering

May 2026 – Present

India

- Orchestrated 500+ containerized mission workloads on a multi-node air-gapped Kubernetes cluster, improving scheduling efficiency by 35%.
- Reduced workload provisioning time by 80% through Python-based automation of Kubernetes Job creation, execution, and monitoring.
- Improved cluster resource utilization by 30% by evaluating and implementing resource-aware scheduling policies across 100+ concurrent workloads.
- Deployed and maintained Prometheus, Grafana, and Loki for real-time observability, monitoring, and log aggregation across infrastructure, workloads, and applications.

Jio Platforms Ltd.

Software Engineer Intern – Backend Development

May 2025 – Aug 2025

Mumbai, India

- Co-developed a Python-based NL2SQL engine enabling natural-language interaction across 70+ MariaDB tables with 97% query accuracy.
- Automated backend utilities processing 50,000+ records in under 5 seconds, improving operational efficiency by 3×.
- Integrated automated testing workflows into Azure DevOps CI/CD pipelines, reducing manual testing effort by 60%.

Bharatiya Samaj Seva Kendra (NGO)

Web Developer Intern

Jun 2024 – Aug 2024

Pune, India

- Created a responsive website using modern web development practices, achieving a Lighthouse performance score above 90.
- Collaborated directly with stakeholders to gather requirements and deliver technical solutions on schedule.

PROJECTS

Multi-Cloud DevOps Platform | AWS, GCP, Terraform, Docker, GitHub Actions, CI/CD

Jan 2026

- Provisioned 10+ cloud resources across AWS and GCP using Terraform (Infrastructure as Code), including ECS Fargate, Cloud Run, VPC networking, load balancing, monitoring, and secrets management.
- Streamlined CI/CD pipelines automating testing, containerization, and infrastructure deployment, reducing manual release effort by 70% and enabling zero-downtime deployments.

OculusAI | Python, TensorFlow, Flask, Next.js, Streamlit, Machine Learning

Dec 2025

- Designed an AI-powered vision health platform combining retinal disease detection (89% accuracy) and color blindness diagnosis (99.5% digit recognition accuracy).
- Trained and deployed dual deep-learning models using 1,400+ Ishihara training images and retinal disease datasets, delivering inference in under 2 seconds.

EchoDB | Next.js, PostgreSQL, SQL, OpenAI GPT-4o, Docker

Apr 2025

- Engineered an AI-powered database platform supporting natural-language querying, visualization, and CRUD operations across 1,000+ unicorn-company records stored in PostgreSQL.
- Implemented GPT-4o powered SQL generation, automated query explanations, CSV/JSON exports, and 4+ interactive chart types for data analysis.

LEADERSHIP AND POSITIONS OF RESPONSIBILITY

D Y Patil International University

AWS Cloud Club Captain

Aug 2023 – Present

Pune, India

- Organized workshops and mentored students on cloud technologies, certifications, and internship preparation.
- Led a team of 35+ students, reaching over 200 students through community learning initiatives.

CERTIFICATIONS

AWS Certified Cloud Practitioner | Amazon Web Services

Apr 2026