ADITYA RAJ

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SUMMARY

DevOps Engineer skilled in designing and automating scalable cloud infrastructure using AWS, Docker, Kubernetes, and Terraform. Experienced in CI/CD pipeline management, Infrastructure as Code (IaC), containerization, and cloud security practices. Proven ability to optimize deployment workflows in Agile environments.

EDUCATION

NMAM INSTITUTE OF TECHNOLOGY, KARKALA, KARNATAKA   Dec 2020 – May 2024
B.E Computer Science | Cumulative GPA – 7.44/10

TECHNICAL SKILLS

- **Programming** – Python, Bash, C++, C
- **DevOps Tools** – CI/CD (Continuous Integration/Continuous Deployment), Docker, Kubernetes, Terraform, Ansible
- **Cloud Platforms** – AWS (EC2, S3, Auto Scaling, IAM, VPC, Route53, Lambda, CloudWatch, CloudFormation)
- **OS & Tools** – Linux, Git, MySQL
- **Computer Science Fundamentals** – Data Structures and Algorithms

EXPERIENCE

Exposys Data Labs   Jan 2024 – Feb 2024
Web Developer Intern (Remote) | Link

- Automated and deployed a prescription writing web application, streamlining healthcare workflows.
- Optimized frontend-backend integration, accelerating processing speed by **30%**.
- Orchestrated development with 5-member team using Git in Agile environment

PROJECTS

DermaAI   Apr 2024
Machine Learning | Technologies: Python, Flask, Docker, AWS, HTML, JavaScript, Bootstrap
- Trained a CNN (DenseNet121) model achieving **99.4%** accuracy, reducing manual diagnosis time by **40%**.
- Developed a Flask-based web app (Bootstrap/JavaScript) and deployed it on AWS EC2 with auto-scaling.
- Containerized the ML model using Docker for seamless deployment across environments.

AWS APAC's Solution Architecture virtual experience program on Forage   June 2025
AWS 3-Tier Architecture Application| Link

- A 3-Tier Architecture app separates the presentation, application, and database layers, enhancing scalability, manageability, and security. This project showcases a robust AWS implementation of the architecture.
- Implemented VPC/S3/EC2/RDS reducing latency by **25%** and reduced AWS costs by **15%** through instance optimization.
- Collaborated remotely, adhering to timelines and refining development practices for better scalability and usability.

CERTIFICATION

Best Project of the Year – DermaAI   Apr 2024
Expo 2024, NMAM Institute of Technology| Link

JNCIA-SEC – Certified in Network Security   Sep 2023
Juniper Networks | Link

VOLUNTEER EXPERIENCE

JUSTICE K S HEGDE CHARITABLE HOSPITAL | Link   May 2021- May 2022
- Volunteered at **25+** vaccination camps, creating awareness for COVID vaccination.
- Assisted in **2000+** registrations, dose confirmations, and certificate generation.

ABHYUDAY | Link   May 2023 – Oct 2024
- Coordinated training sessions for 100+ students, helping them enhance skills for successful training and placement.