

Prasad Nitin Deshpande

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SUMMARY

Cloud/DevOps Engineer with 5+ years of experience in designing, developing, and deploying scalable infrastructure solutions using modern cloud technologies. Expertise in automation, orchestration, and cloud-native tools. Proven ability to optimize performance enhance reliability and reduce costs. Strong communication and collaboration skills to drive cross-functional initiative. Adept at designing scalable and resilient cloud architectures.

PROFESSIONAL EXPERIENCE

Tenet Health

Dallas, TX | June 2024 – August 2024

Cloud Engineer

- Analyzed demographic data to identify trends and provide data-driven insights to improve overall enrolment metrics
- Containerized Python scripts with **Docker**, migrating workloads from VMs to GCP Cloud Run, reducing cloud costs by 5%
- Automated infrastructure workflows using **Airflow DAGs** in Google Composer, increasing efficiency by 30%
- Scraped and analyzed medical reports using Selenium, supporting data-driven decision-making
- Implemented **CI/CD** pipelines using GitHub Actions to streamline deployments and ensure high availability

Digital Ocean

Bangalore, India | December 2021 – July 2023

Cloud Support Engineer

- Automated deployment of cloud infrastructure using **Terraform**, **Ansible**, reducing IT labor by 320+ hours annually
- Managed and maintained physical and virtualized Linux servers, optimizing resource utilization and performance
- Configured secure systems and monitored security compliance across all Linux-based environments
- Monitored application performance using **Splunk** and **Grafana** to analyze and troubleshoot real-time metric
- Performed troubleshooting and resolution for system-level issues, ensuring 99% uptime for client systems

Red Hat Inc

Pune, India | August 2019 – October 2021

Associate Technical Support Engineer

- Collaborated with clients to design and document SOPs for system administration activities.
- Deployed and managed **open-source systems**, including Apache, MySQL, and Postfix, in mixed Windows/Linux environments
- Designed and documented server maintenance procedures to standardize system administration tasks
- Developed 30+ custom **Linux shell scripts** for OS provisioning and maintenance, enhancing operational efficiency by 50%

CERTIFICATION & SKILLS

Certifications:	CKA, CKAD, RedHat Certified Engineer, AWS Solutions Architect, AWS Data Engineer
Languages:	SQL, Python, Linux Shell Scripting
Data Visualization:	Power BI, Tableau, Microsoft Excel
CI/CD Tools:	Jenkins, Github, ArgoCD
Networking:	TCP/IP, HTTP/HTTPS, DHCP, DNS, Load Balancers
Cloud:	AWS, Azure, GoogleCloud, Openshift
IaCTools:	Ansible, Terraform, CloudFormation
Container Tools:	Docker, Kubernetes, Podman, Helm Charts
System Administration:	Linux (Red Hat, Ubuntu, CentOS), VMWare, Hyper-V, Xen

PROJECT

Docker Browser Compiler | HTML, CSS, Docker

May 2018 – June 2018

- Proposed a website/web browser to allow customers to compile their code online, written in any language without any need to install the compilers on their local machine

Event Driven Pipeline | Python, S3, Kafka, Athena

September 2024 – October 2024

- Designed a Kafka-based real-time data pipeline to ingest stock market data, store it on AWS S3, and query it with AWS Athena

EDUCATION

The University of Texas at Dallas

Dallas, TX

Master of Science in Information Technology and Management

August 2023 – May 2025

Coursework: OOP in Python, AWS Cloud Analytics, Big Data

Dr. Babasaheb Ambedkar Marathwada University

Aurangabad, India

Bachelor of Engineering in Computer Science

May 2014 – June 2018

Coursework: Database Management, Operating Systems, Theory of Computation

LEADERSHIP & ORGANIZATION

UTD AWS Club | President

January 2024 – Present

- Delegated tasks and responsibilities to club officers and members, ensuring smooth operations and active participation
- Boosted hackathon attendance by 25% through targeted outreach and partnerships
- Mentored 20+ students on AWS certification paths, resulting in improved exam preparedness and career guidance