Ankit **Pandey**

SITE RELIABILITY ENGINEER · SENIOR SOFTWARE ENGINEER

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Profile Summary

DevOps Engineer with 3+ years of expertise in AWS, Azure, Terraform, Docker, Kubernetes, Ansible, Shell Script, Jenkins CI/CD, GitHub Actions. Contributed to the success of Indexnine, a thriving startup in Site Reliability and achieved a significant 35% decrease in thier monthly AWS costs. Specialized in infrastructure automation, cybersecurity, and backend development.

A problem-solving enthusiast with a focus on learning and adopting new technologies. Emphasizes optimizing development environments, with a love for Vim, Linux, and OS X customization. Ready to bring expertise to the next challenge in the DevOps landscape.

Work Experience

Indexnine Technologies Pvt. Ltd.
Pune, IN

Site Reliability Engineer
Jul. 2020 - Nov. 2023

- Orchestrated a hybrid infrastructure on Amazon AWS and Microsoft Azure using IaC tools (Ansible, Packer, Terraform), ensuring a robust 99.9% SLA (Service Level Agreement).
- Implemented fully automated CI/CD pipelines on GitHub Actions for Dockerized applications, integrated Sentry.io for enhanced deployment reliability, achieving a notable 95% reduction in manual deployment efforts.
- Designed and executed a robust CI/CD pipeline using Jenkins and Kubernetes, resulting in a 50% reduction in deployment lead time and a twofold increase in release frequency, accelerating time to market.
- Led the adoption of Docker and Kubernetes for a video conferencing platform, enabling rapid scaling and implementing a microservices architecture, leading to a 40% increase in traffic handling capacity.
- Improved Indexnine's core application infrastructure by migrating to AWS, utilizing Terraform to define and manage resources with code. Achieved a significant 30% reduction in infrastructure costs.
- Streamlined deployment pipelines with Ansible playbooks, automating 70% of infrastructure tasks, freeing up developer time and enhancing overall team productivity.
- Leveraged AWS SAM to construct the backend, collaborating closely with the Scrum Team to deliver high-quality products. Completed 20-story points in each sprint. Also provided mentorship to 2 junior team members.
- Deployed API microservices in Node.js Canvas, integrated with serverless AWS Lambda functions for an efficient, scalable architecture, yielding a significant 72% improvement in overall output.

Skills

DevOps	AWS, Terraform, Ansible, Docker, Kubernetes, Jenkins, GitHub Actions, ForgeRock
Programming	Python, Bash/Shell-scripting, Node.js, LaTeX
Logging/Monitoring	Prometheus, Grafana, Elasticsearch, Logstash, Kibana (ELK)
Languages	English, Hindi, Japanese

Projects

GitHub-Powered AWS Cloudformation Automation
Pune, IN

Personal
Oct. 2023

- Enhanced and optimized AWS SAM stack deployments through GitHub Actions, reducing deployment time by 25% and enhancing operational efficiency.
- Refined YAML files for CloudFormation Stack deployments, delivering a 15% enhancement in deployment accuracy, validated through post-deployment testing metrics.
- Enabled global scalability by supporting major 33 AWS region preferences, showcasing flexibility for diverse user bases.
- Garnered a robust community with 30+ active users on GitHub Marketplace, underscoring the project's widespread adoption and impact.

Docker Image for UI Testing on scale on Ubuntu
Pune, IN

Personal
Oct. 2022

- Engineered a Docker image tailored for Robot Framework automation on Ubuntu (linux/amd64).
- Applied key actions in image layers, including updating system packages, installing pip3 for Python package management, and incorporating Google Chrome for comprehensive automation.
- Minimized Docker image size on DockerHub to a mere 345MB, featuring pre-configured packages for immediate use and efficient deployment.
- Reduced testing time by 30% through efficient Dockerized Selenium automation.

Twitter Sentiment Analysis using R (Shiny WebApp) *Pune, IN*
Personal *Apr. 2020*

- Developed a Shiny WebApp for real-time Twitter Sentiment Analysis, bridging technical and non-technical users to extract insights from Twitter generated live text data of 3M+ tweets.
- Integrated Twitter API seamlessly with R, enabling powerful sentiment analysis and visualization through word clouds, histograms, and pie charts and in 2 more formats.
- Exhibited expertise in R programming, DevOps, Linux, Shell Scripting, AWS, and Git, underscoring a well-rounded skill set applied in project implementation. The repository received 12+ GitHub stars.

Certifications

International

Google	**Google Cloud** Generative AI learning path	*Jul. 2023*
LinkedIn	**Microsoft & LinkedIn** Career Essentials in Generative AI	*Jun. 2023*
Coursera	**IBM** IBM Data Science Professional Specialization	*Feb. 2020*

Education

Savitribai Phule Pune University *Pune, IN*
B.E. in Computer Engineering - Completed *May. 2020*

- 7.29 CGPA First Class
- Developed proficiency in areas such as Web Development, Computer Architecture, Cybersecurity, Artificial Intelligence, and Project Management in IT.

Honors & Awards

Indexnine Technologies Pvt. Ltd.

Pune, IN	**Promoted as Sr. Software Engineer**	*Apr. 2022*
Pune, IN	**1st QA Hackathon - BugBash**	*Sep. 2021*
Pune, IN	**Fresh Talent Impact Award for Q3**	*Dec. 2020*

Publications

International Journal for Scientific Research & Development (IJSRD) *Pune, IN*
Optimal Stopping Algorithm for Modern Interview Process using Machine Learning *Apr. 2020*

- This research paper introduces an innovative approach to modern interview processes using Optimal Stopping algorithm and Machine Learning.
- By leveraging the power of the renowned 37% rule and decision tree classifiers, the study aims to optimize the selection of candidates while minimizing time investment.