Jay Patel

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PROFESSIONAL SUMMARY

Associate DevOps Engineer with hands-on experience in AWS infrastructure, IAM automation, and CI/CD pipelines. Built production-grade automation tools and serverless systems, with research-oriented exposure to risk-aware cloud autoscaling using machine learning.

EDUCATION

Pandit Deendayal Energy University   Gandhinagar, Gujarat
B.Tech in Information and Communication Technology   2022 – 2026
  – CPI: 8.95 / 10   (After 7th Semester)

PROFESSIONAL EXPERIENCE

Wonderlend Hubs Pvt. Ltd.   Remote
Associate DevOps Engineer – Trainee (Full-Time)   Jan 2026 – Present
  – Faced delays and errors in manual IAM access provisioning, designed and implemented a JIRA-integrated IAM automation system using boto3 that parses access requests, provisions users, assigns IAM groups, applies audit tags, and updates ticket status automatically, reducing access setup time from hours to minutes.
  – Tasked with ensuring secure credential delivery, built SES- and Slack-based notification workflows with enforced password resets and MFA readiness, improving security consistency across internal and external user onboarding.
  – Supported high-frequency staging and production deployments by troubleshooting CI/CD and environment-level issues across AWS-based microservices, unblocking deployments for 50+ developers.

Wonderlend Hubs Pvt. Ltd.   Remote
Associate DevOps Engineer – Intern   Feb 2025 – Dec 2025
  – During rapid staging and production growth, assisted in managing AWS infrastructure (EC2, S3, IAM) and collaborated with senior DevOps engineers to resolve deployment failures, improving environment stability and deployment reliability.

SELECTED PROJECTS

Resurge-Net — Risk-Aware Cloud Autoscaling Framework | *Python, AWS, ML Systems*
  – Observed that reactive and mean-only autoscaling caused SLA violations or over-provisioning, designed a risk-aware autoscaling framework that proactively predicts demand while modeling uncertainty and rare workload spikes.
  – To capture temporal workload behavior, built a deep demand predictor using CNN and LSTM/GRU layers trained on Alibaba Cluster Trace v2018, outputting mean demand, uncertainty, and spike probability.
  – Evaluated cost–reliability tradeoffs by implementing a tunable risk-based scaling policy and simulation framework, demonstrating Pareto dominance over reactive and ML baselines in cost vs SLA violations.

DocVault — Secure Serverless Document Vault | *AWS, Terraform, GitLab CI/CD*
  – To eliminate server management and improve scalability, designed and deployed a fully serverless document management system using AWS S3, Lambda, API Gateway, and DynamoDB with JWT authentication and presigned uploads.
  – To ensure reproducible and secure deployments, built an end-to-end GitLab CI/CD pipeline with Terraform, automating infrastructure provisioning, Lambda packaging, frontend deployment, and encrypted remote state locking.
  – Optimized for cost and availability by engineering a static S3-hosted frontend with an API-driven backend, supporting hundreds of document operations with zero server maintenance.

TECHNICAL SKILLS

Cloud & DevOps: AWS (IAM, EC2, S3, Lambda, API Gateway, DynamoDB, SES), Terraform, Docker, GitLab CI/CD
Programming: Python, C, C++, Shell Scripting
Systems: Linux, Networking
ML (Project-based): Time-Series Forecasting, CNN, LSTM/GRU, Uncertainty Modeling