

# Akilesh Thuniki

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## PROFESSIONAL SUMMARY

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Results-driven Cloud Architect and DevOps Engineer with 5+ years of specialized experience in AWS, Kubernetes, Docker, Terraform, and CI/CD automation. As an AWS Certified Developer, I excel in cloud computing, infrastructure as code, GitOps, microservices architecture, and cybersecurity best practices. Demonstrated success with a 35% reduction in AWS costs, 70% improvement in deployment efficiency, and consistent 99.99% uptime through high availability design. Passionate about problem solving and implementing data-driven solutions, with expertise in container orchestration (ECS, Kubernetes), GitLab, Jenkins, ArgoCD, and comprehensive monitoring solutions including Splunk, Prometheus, Grafana, ELK stack, and CloudWatch. A collaborative technical leader fostering DevSecOps culture and driving efficiency, automation, scalability, and cost optimization across cloud-native and multi-cloud environments. Proven track record in cross-functional stakeholder management, technical mentoring, and leading enterprise-level cloud transformation initiatives.

## TECHNICAL SKILLS

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**Cloud & Infrastructure:** AWS (EC2, S3, Lambda, API Gateway, Cognito, SNS, SQS, IAM, CloudWatch, Shield, WAF, Backup) | Kubernetes | ECS | Docker | Helm | Terraform | AWS CloudFormation | Networking & Security (VPC, Subnets, NACLs, Security Groups, Load Balancers, Auto Scaling)

**DevOps & CI/CD:** Jenkins | GitHub Actions | GitLab CI | Flux | GitOps | Ansible | Configuration Management (Chef, Puppet) | Monitoring & Logging (Prometheus, Grafana, CloudWatch, Splunk, Elasticsearch)

**Data Engineering & Analytics:** AWS Data Lake (S3, Glue, Athena) | Data Warehouse (Redshift, Snowflake) | ETL/ELT Pipelines | AWS EMR | Apache Spark | Data Catalog | Data Visualization (QuickSight, Tableau) | Data Governance

**Programming & Automation:** Python | Golang | TypeScript | Bash

**Data & Databases:** MySQL | PostgreSQL | DynamoDB | MongoDB | Redis

**Messaging & Event-Driven Architectures:** Kafka | ActiveMQ | SNS | SQS | Kinesis | Event Bridge

**Agile & Project Management:** Scrum | Kanban | Jira | Confluence | ServiceNow

## WORK EXPERIENCE

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### ShadowRock

**Cloud Architect** | Jan 2025 – Present

- Architected a cloud-native serverless platform on AWS using Lambda, API Gateway, and Step Functions, reducing infrastructure overhead by 50% while improving scalability and fault tolerance.
- Established comprehensive GitOps practices with Flux and GitLab CI/CD for infrastructure automation using Terraform, decreasing deployment time by 60% and enabling zero-downtime deployments across environments.
- Designed and implemented a robust zero-trust security model with AWS Cognito, WAF, and Shield, achieving 100% compliance with industry security standards and enabling MFA enforcement across all customer-facing applications.
- Engineered a highly resilient event-driven ecosystem leveraging SNS, SQS, and Kinesis for asynchronous processing, resulting in a 40% improvement in system reliability and a 65% reduction in API latency for users.
- Optimized AWS resource utilization through strategic right-sizing, auto-scaling, and spot instance integration, delivering 35% cost reduction while implementing FinOps practices across multiple development teams.
- Led adoption of AWS Well-Architected Framework principles across multiple workloads, ensuring 99.99% uptime through multi-AZ architecture, automated recovery, and comprehensive CloudWatch monitoring with proactive alerting.

### J.P. Morgan | USA

**DevOps Engineer** | May 2024 – Jan 2025

- Automated CI/CD pipelines with GitLab CI/CD and Kubernetes (ECS, EKS) for microservices architecture, improving deployment efficiency by 35% and reducing release failures by 45% across environments with automated testing.
- Developed Python-based automation scripts to streamline repetitive workflows and maintenance tasks, reducing manual effort by 30% across 5 development teams and improving developer productivity and code quality.
- Integrated Splunk and Prometheus with custom alerting and dashboards for monitoring, detecting issues 30% faster, increasing system uptime to 99.95%, and providing insights for performance optimization.
- Optimized RESTful APIs (Python, Flask) through caching, pagination, validation, and connection pooling, improving backend performance by 35%, reducing response time to under 100ms, and enhancing user experience.
- Built scalable event-driven architectures using Kafka and SQS with dead-letter queues, boosting system responsiveness by 40% and enabling asynchronous processing of 10M+ daily events across distributed systems.
- Automated infrastructure provisioning (Terraform, Ansible) with modular templates and reusable components, reducing environment setup time by 50%, ensuring configuration consistency, and simplifying team onboarding.

**Capgemini Technology Services | Hyderabad, IN**  
**DevOps Engineer | Jun 2021 – Jul 2023**

- Led DevOps transformation for multiple Fortune 500 clients, improving deployment reliability by 85% and reducing time-to-market by 40% while establishing continuous improvement practices.
- Developed custom Golang and TypeScript automation scripts with robust error handling with reduced infrastructure provisioning time from days to minutes, eliminating 90% of manual configuration errors.
- Successfully migrating of 200+ legacy applications to containerized microservices on Kubernetes (EKS, ECS) with zero data loss, enhancing scalability by 60% and reducing unplanned downtime by 75% while maintaining backward compatibility.
- Implemented high-throughput, fault-tolerant Kafka and ActiveMQ message brokers for real-time event processing across distributed systems, handling 5M+ daily transactions with sub-second latency and 99.99% delivery reliability.
- Built and optimized GitHub Actions CI/CD pipelines for sophisticated test automation, accelerating deployments by 300%, enabling 15+ daily releases across product teams, and reducing integration failures by 70% through comprehensive quality.
- Enhanced system observability with Elasticsearch, Splunk, and centralized logging, reducing MTTR by 65% and improving incident response time from hours to minutes through custom dashboards and proactive alerting.
- Deployed blue-green & canary release strategies for production workloads, minimizing customer disruptions during 300+ successful deployments and decreasing rollback time from hours to minutes with feature flag management.

**Tata Consultancy Services (TCS) | Bangalore, IN**  
**Cloud Engineer | Jul 2019 – Apr 2021**

- Architected AWS networking infrastructure (VPC, subnets, security groups, ELB) for 30+ critical business applications across multiple regions achieving 99.9% uptime and 70% fewer security incidents throughout the enterprise.
- Automated cloud provisioning with Terraform and CloudFormation templates and modules, cutting deployment time from days to minutes with 100% configuration consistency and significantly improved developer productivity across all teams.
- Built and maintained highly scalable Jenkins CI/CD pipelines for 50+ microservices and Lambda functions with automated testing enabling 20+ daily deployments and 80% faster releases through sophisticated automation frameworks.
- Deployed Docker and Kubernetes (ECS, EKS) solutions across AWS regions with auto-scaling policies that improved resource utilization by 40% and handled 3x traffic spikes during peak hours without performance degradation.
- Implemented CloudWatch, CloudTrail, and Grafana monitoring with custom dashboards and alerting mechanisms, reducing resolution time by 65% and enhancing security visibility for operational teams throughout the organization.
- Optimized IAM roles and access policies using least-privilege principles and security audits with automated compliance scanning, reducing vulnerabilities by 85% and ensuring SOC2/HIPAA compliance for enterprise customers.

**EDUCATION**

<b>University of Utah</b>	<b>Utah, USA</b>
Master of Science in Information Systems	Aug 2024
<b>Jawaharlal Nehru Technological University</b>	<b>Hyderabad, IN</b>
Bachelor of Technology in Mechanical Engineering	Jun 2019

**PROJECTS**

**Infrastructure Migration on AWS & Service Enhancement**

- Led a large-scale cloud migration, ensuring 99.99% uptime and reducing costs by 30%.
- Strengthened security using AWS IAM, Shield, WAF, and Patch Manager, mitigating 70% of potential threats.
- Optimized load balancing and auto-scaling, ensuring stability during peak traffic.

**Enterprise CI/CD Pipeline Modernization**

- Built a GitOps-driven CI/CD pipeline, automating deployments for 50+ microservices.
- Reduced deployment failures by 75% with automated testing and rollback strategies.
- Integrated GitLab CI/CD & Flux, improving deployment speed and reliability.

**Cloud Cost Optimization Initiative**

- Led an AWS cost reduction initiative, cutting cloud spend by 35% through resource scheduling and right-sizing.
- Developed real-time cost monitoring dashboards (Grafana, CloudWatch) for improved visibility.

**CERTIFICATIONS**

- AWS Certified Developer
- Agile Software Development by the University of Minnesota
- QA Automation Engineer – Level 1 by Capgemini
- AWS Cloud Practitioner Essentials by Amazon Web Services