

Shaïd Tiwari

DevOps Engineer • Backend Developer • Cloud Architect

DevOps Engineer and Backend Architect with 3+ years leading cloud infrastructure and backend systems for high-growth startups. Expert in serverless architecture (AWS Lambda, Serverless Framework), production FastAPI backends, and Kubernetes orchestration. Proven track record reducing deployment time by 85%, cutting infrastructure costs by 45%, and maintaining 99.97% uptime for applications serving 100K+ users. Specialized in building automated CI/CD pipelines, Infrastructure as Code, and scalable microservices architectures.



shaidt137@gmail.com

5636528650

Des Moines, United States

portfolio-alpha-ivory-63.vercel.app/

github.com/OpShaïd



WORK EXPERIENCE

Lead Infrastructure & Backend Engineer FitMirage - AI Fashion Platform (Pepperdine Most Fundable Companies® 2025 Quarter-Finalist)

06/2023 - Present

Remote

Achievements/Tasks

- Leading 5-person engineering team
- Architecting complete cloud-native infrastructure
- Designing enterprise-grade serverless architecture
- Building production FastAPI microservices backend
- Engineering fully automated CI/CD pipelines
- Implementing blue-green deployment strategy
- Establishing comprehensive observability stack
- Leading infrastructure security
- Architecting multi-region disaster recovery

DevOps Engineer & Backend Developer DrDroid (YC W23) - Enterprise Observability Platform

01/2024 - 11/2025

Remote

Achievements/Tasks

- Architecting production serverless backend infrastructure
- Building scalable FastAPI microservices
- Developing enterprise CI/CD automation
- Implementing Infrastructure as Code
- Optimizing AWS infrastructure costs
- Establishing Prometheus + Grafana monitoring
- Leading Kubernetes migration

Senior Backend & DevOps Consultant Freelance - Healthcare, FinTech, SaaS Clients

05/2022 - Present

Remote

Achievements/Tasks

- Architecting production serverless backends
- Migrating legacy monoliths to microservices
- Implementing GitOps workflows
- Building event-driven architectures



SKILLS

DevOps & CI/CD

Docker, Kubernetes, Terraform, GitHub Actions, Jenkins, GitLab CI, ArgoCD

Backend Development

FastAPI, Node.js, Python, TypeScript, REST APIs, GraphQL, WebSocket

Databases

PostgreSQL, MongoDB, Redis, DynamoDB, RDS, ElastiCache

Cloud & Serverless:

AWS (Lambda, API Gateway, S3, RDS, CloudFormation), Serverless Framework, GCP Cloud Functions

Monitoring & Observability

Prometheus, Grafana, CloudWatch, DataDog, Loki, ELK Stack, Sentry

Message Queues & Streaming

Apache Kafka, RabbitMQ, AWS SQS/SNS, Redis Pub/Sub

Infrastructure as Code

Terraform, CloudFormation, Ansible, Pulumi

Security & Compliance

OAuth 2.0, JWT, AWS IAM, Secret Management, OWASP, SOC 2



PERSONAL PROJECTS

Zero-Downtime Kubernetes Blue-Green Deployment System

- Production-grade deployment orchestration system managing blue-green deployments across 50+ microservices on EKS. Features automated health checks, traffic shifting with Istio service mesh, instant rollback on failure detection, and Slack/PagerDuty integration. Processes requests during cutover with zero dropped connections. Reduced deployment risk by 95% and enables 10+ daily production releases.

Serverless Auto-Scaling API Gateway with Rate Limiting

- Production API gateway handling 100K+ req/min with intelligent rate limiting, JWT authentication, request transformation, and automatic DDoS protection. Features dynamic API key management, per-tenant quotas, real-time usage analytics, and cost tracking. Built on AWS Lambda with sub-50ms cold starts. Saves \$25K/month vs traditional API gateways.

Automated Security Scanning & Compliance Pipeline

- Comprehensive security automation scanning Docker images, IaC templates, application code, and runtime environments for vulnerabilities. Integrates SAST, DAST, SCA, and secret detection with automatic Jira ticket creation for critical findings. Features compliance reporting for SOC2, HIPAA, PCI-DSS with evidence collection. Blocked 500+ vulnerabilities from reaching production in first 6 months.

Multi-Cloud Infrastructure Orchestration Platform

- Self-service infrastructure provisioning platform enabling developers to deploy full-stack applications across AWS, GCP, and Azure through a unified API. Features cost estimation, automatic security hardening, compliance checks (SOC2/HIPAA), and drift detection. Reduced infrastructure setup from 3 days to 15 minutes while cutting cloud costs by 40% through intelligent resource optimization.

Distributed Tracing & Performance Optimization Platform

- End-to-end observability platform providing distributed tracing across 100+ microservices with automatic performance bottleneck detection. Features service dependency mapping, latency analysis, error tracking, and AI-powered optimization suggestions. Reduced P99 latency by 65% through automated query optimization and caching recommendations. Processes 1M+ traces daily.



ACHIEVEMENTS

Led backend architecture for a serverless platform (05/2024 - 11/2025)

Led backend architecture for a serverless platform handling 100k+ events/day, built on Node.js, Lambda, DynamoDB Streams, and Kinesis cut processing latency by 40% through batching + optimized Lambda concurrency.

Lead DevOps/Infra (06/2023 - Present)

Terraform + Serverless IaC, cross-account roles, centralized logging, alarms, and cost optimization reduced infra spend by 27% while increasing reliability.

Freelance - Healthcare, FinTech, SaaS Clients (05/2022 - Present)

50+ clients with everything from fast MVP builds to integrations and automation. I handled projects end-to-end, delivered quickly, and kept people coming back passed \$10k in earnings doing practical, real work for real customers.



CERTIFICATES

AWS Solutions Architect | Amazon Web Services

Docker & Kubernetes Certification | Udemy

Computer Science & DevOps | Coursera, Udemy, Self-Directed Learning



LANGUAGES

English

Native or Bilingual Proficiency

Nepali

Native or Bilingual Proficiency