

# AMAN GOYAL

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## EDUCATION

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### Master of Computer Applications

Graphic Era Hill University

Aug. 2022 – July 2024

Dehradun, Uttarakhand

### Bachelor of Science in Information Technology

Graphic Era Hill University

Aug. 2019 – July 2022

Dehradun, Uttarakhand

## EXPERIENCE

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### Founding Engineer / DevOps & Backend Engineer

Vubo

Feb. 2025 – Present

Remote

- Built and maintained production infrastructure for an AI-powered video SaaS using AWS (ECS Fargate, S3, CloudFront, RDS, Lambda) and Docker-based deployments.
- Designed scalable background job architecture using Redis, BullMQ/Inngest for media processing, AI workflows, and asynchronous task orchestration.
- Implemented subscription-based credit system with atomic usage control, rate limiting, and workspace-level storage enforcement.
- Optimized CI/CD pipelines using GitHub Actions with build caching, environment automation, and automated CloudFront cache invalidation.
- Integrated observability using OpenTelemetry and product analytics (PostHog) to monitor performance and user behavior across AI generation pipelines.
- Reduced infrastructure costs through architecture optimization, resource right-sizing, and efficient cloud asset delivery strategies.

### Software Engineer (Freelance / DevOps)

Independent Projects & Startup Consulting

Jun. 2024 – Present

Remote

- Designed and deployed cloud infrastructure for early-stage startups using AWS, Docker, reverse proxies, and automated CI/CD workflows.
- Reduced operational costs by replacing \$500+/month SaaS tools with self-hosted open-source alternatives (Umami, Chatwoot, Uptime Kuma, OpenReplay) on a single VPS.
- Implemented secure production environments with HTTPS/TLS, least-privilege access, environment isolation, and VPN-restricted internal services.
- Built backend services and automation workflows for analytics, media processing, and scheduled job execution with high reliability.
- Provided end-to-end DevOps setup including infrastructure provisioning, monitoring, logging, and deployment automation for multiple projects.

## PROJECTS

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### Vubo | AI Video Generation SaaS

vubo.ai

- Built and maintained a full-stack AI SaaS platform for automated video generation using Next.js, PostgreSQL, Redis, and AWS (ECS, S3, Lambda, CloudFront).
- Designed scalable background job architecture using Inngest and BullMQ for media processing, credit management, and workflow orchestration.
- Implemented subscription-gated access, atomic credit deduction, rate limiting, and referral-based growth system.
- Integrated OpenTelemetry tracing and PostHog analytics; optimized CI/CD with GitHub Actions caching and automated CloudFront invalidations.

### ClipDecode | AI Video Analysis Platform

clipdecode.com

- Developed a multi-step AI processing pipeline (download → transcription → analysis → synthesis) using Google Gemini and Mistral APIs.
- Orchestrated fault-tolerant async workflows using Convex scheduler with real-time state updates and retry handling.
- Built full-stack application with Next.js 15, TypeScript, Clerk authentication, and credit-based usage controls.

- Integrated subscription billing via Dodo Payments with idempotent webhook processing and tier-based access control.

### Cloud Infrastructure Automation

*AWS, Terraform, GitHub Actions*

- Provisioned production-ready AWS infrastructure using modular Terraform (VPC, ALB, ECS/Fargate, RDS, CloudFront, WAF, ElastiCache).
- Implemented zero-downtime blue-green deployments with ECS + CodeDeploy integrated into GitHub Actions and ECR workflows.
- Designed secure-by-default architecture with least-privilege IAM, TLS, WAF rules, and secrets management via SSM/Secrets Manager.
- Improved reliability using autoscaling, RDS Proxy connection pooling, CloudWatch monitoring, and automated backup/alerting pipelines.

## TECHNICAL SKILLS

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**Languages:** TypeScript, JavaScript, Golang, SQL, Shell Scripting

**Backend & Frameworks:** Node.js, Next.js (App Router), Express.js, REST APIs, Convex, Drizzle ORM

**Cloud & DevOps:** AWS (ECS Fargate, EC2, S3, CloudFront, RDS, Lambda, IAM, CloudWatch, WAF), Docker, Terraform, GitHub Actions, CI/CD

**Infrastructure & Systems:** Linux, Nginx, Reverse Proxy, Redis, BullMQ, Inngest, Background Jobs, System Design, Infrastructure as Code (IaC)

**Monitoring & Observability:** OpenTelemetry, PostHog, Logging, Metrics, Performance Optimization

**AI & Agent Systems:** Claude SDK, OpenAI-compatible APIs, Vercel AI SDK, Agentic Workflows, LLM Orchestration, AI Pipelines

## CERTIFICATIONS

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- **Learn How To Code - Google's Go Programming Language**
- Certificate Issuer: Udemy
- **Practical Ethical Hacking**
- Certificate Issuer: Udemy