

Anurag Bhatt

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SUMMARY

DevOps Engineer focused on AWS infrastructure and Gitlab CI/CD orchestration. Experienced in transitioning legacy process management to containerized environments to improve system reliability and scalability. Specialist in designing deployment workflows that synchronize microservice across multiple environments.

EDUCATION

HKBK College of Engineering	Oct 2020 – Jun 2024
Bachelor in Engineering	GPA: 8.3 CGPA

WORK EXPERIENCE

DevOps Engineer	Mar 2025 – Present
TP Vision	Bengaluru, India

Working with client organization **TP Vision** (Joint venture between **Philips** and **TPV Technology**)

- Orchestrated end-to-end cloud infrastructure for the wave hospitality and signage modules, supporting a global network of 40,000+ Philips displays.
- Achieved a full scale production environment on AWS EKS using Argo CD, reducing deployment times by 50% and eliminating manual configuration errors through synchronized YAML workflows.
- Innovated a centralized deployment controller as a single source of truth, accelerating deployment cycles by 85% and reducing manual rollback downtime by 70%.
- Worked on multi-environment infrastructure using OpenTofu, implementing a modular architecture with continuous version upgrades to maintain compatibility with the latest provider features.
- Standardized infrastructure delivery by developing reusable terraform modules, ensuring environment parity across Dev, QA and production while supporting the latest security and performance patches.
- Modernised an automated cross-account backup strategy for RDS and MongoDB Atlas, utilizing isolated account replication to ensure data integrity and 100% recover capability in the event of account compromise.
- Tech Stack:** AWS, Kubernetes, Terraform, Cloudflare, GitLab, Docker, MongoDB Atlas, Node.js, Python.

Software Developer	Oct 2024 – Present
Cumulations Technology Pvt. Ltd.	Bengaluru, India

- Developed responsive web solutions using Next.js and React from Figma designs, architecting a secure AWS S3 and CloudFront hosting environment to optimize global frontend performance.
- Refined a custom modular API class in Frappe that consolidated multi-data requests, reducing frontend-to-server calls by 50%.
- Simplified scalable database schemas for 1,000+ users and implemented complex Role-Based Access Control by overriding internal framework hooks to secure sensitive data.
- Orchestrated a hybrid deployment strategy using AWS EC2 and Frappe Cloud, achieving a 40% cost reduction while establishing a GitHub-to-Production pipeline for auto-sync codebase and scaling.
- Tech Stack:** Next.js, Frappe, Django, PostgreSQL, Nginx, Docker, AWS.

Freelance Software Engineer	Apr 2024 – Sept 2024
Whiteboard Technologies Pvt. Ltd.	Bengaluru, India

- Migrated company's legacy WordPress website to performance-optimized React.js and Firebase architecture.
- Prepared a cross-platform system using Django, docker and electron.js transitioning workflows to docker-compose to reduce server configuration time by 85%.
- Redesigned Django REST API, reducing database query load and minimizing payload sizes for low-latency.
- Composed end-to-end deployment using local DNS resolution and nginx, using 100% data residency and compliance with internal privacy policies.
- Tech Stack:** React.js, Firebase, Django, MySQL, Nginx, GitHub Actions.

E-Lab Administrator	Feb 2022 – Dec 2022
HKBK College of Engineering	Bengaluru, India

- Debugged and containerized the college hackathon platform using docker, transitioning the environment to docker compose to ensure high availability and performance on limited hardware resources.

- Deployed and maintained the application on internal servers for multiple large-scale events, implementing Ubuntu cockpit for real-time monitoring which reduced server downtime by 70%
- **Tech Stack:** Pm2, Node.js, MongoDB, Docker, Nginx

PROJECTS

Genius Training	Nov 2025 – Present
<ul style="list-style-type: none"> • Developed a custom Node.js-based Learning Management System (LMS) featuring integrated video streaming, interactive training modules, and real-time quiz functionality. • Combined a secure media delivery system using s3 with pre-signed URLs, ensuring that training assets remain private and accessible only via time-limited (1-hour) tokens. • Created the frontend deployment lifecycle via S3 and CI/CD pipelines. • Implemented a Docker-compose backend update strategy, utilizing tagged image versioning to ensure consistent and rapid environment updates. • Introduced the system to handle multi-format training assets while maintaining high availability for concurrent student testing sessions. 	
Philips Genius	June 2025 – Present
<ul style="list-style-type: none"> • Achieved a scalable environment on AWS EKS using Argo CD for GitOps-based automation, reducing deployment time by 50% and eliminating manual configuration errors. • Migrated all development, QA, and production workloads to private subnets behind AWS load balancers, ensuring 100% network isolation for sensitive data. • Upgraded the Kurento Media Server (KMS) controller to maintain standby buffer instances, slashing connections latency from 8 minutes to under 2 minutes. • Executed a cost-optimized strategy by transitioning from ElastiCache Redis to a self-hosted Redis Cluster via Stateful Sets/PVCs and implementing a CloudFront flat-pricing model, resulting in a \$1200+ annual infrastructure saving. • Scaled the platform to support a live production load of 15,000+ active students and teachers through fine-tuned Horizontal Pod Autoscaling (HPA). • Deployed a full-stack observability suite using Prometheus and Grafana to provide real time metrics and proactive alerting across the EKS ecosystem. • Maintained high-availability for self-hosted Gitlab instances on EKS, automating credential rotations and registry maintenance to ensure zero-interruption for the development team. 	
PPDS Wave	Mar 2025 – Present
<ul style="list-style-type: none"> • Managed end-to-end infrastructure for the Wave Hospitality and Signage modules, supporting a global fleet of 40,000+ Philips displays. • Pioneered a Centralized Deployment Controller establishing it as the authoritative source for microservice versions, slashing manual rollback downtime by 70% and eliminating the need for Git reverts. • Accelerated deployment cycles by 85% by automating version verification and removal of redundant build-prep steps. • Pioneered a cross-account backup solution leveraging isolated account replication for RDS and MongoDB Atlas, fortifying data integrity and slashing potential data loss exposure by 90% after account intrusion. • Worked on a high-throughput event-driven system handling 10,000 requests per minute using AWS IoT Core, SNS and SQS to decouple microservice communication. • Orchestrated ECS Fargate deployments with blue-green rolling updates, utilizing a 5-minute health-concurrency check to ensure zero-downtime releases. • Implemented a real-time observability stack using CloudWatch and Slack-integrated alarms, establishing a 5-minute threshold for incident notification. • Hardened global infrastructure security and performance using OpenTofu, AWS WAF, Secret Manager, Auth0 	
EzlarCare	Nov 2024 – Jan 2025
<ul style="list-style-type: none"> • Architected backend system and deployment strategy using Frappe, managing the end-to-end database schema and infrastructure planning for 1000+users. • Engineered a custom modular API class that consolidated multiple data requests into single responses, reducing frontend-to-server API calls by 50% and significantly decreasing server load. 	

- Developed complex Role-Based Access Control (RBAC) by overriding internal framework hooks to secure sensitive developmental data for different user tiers.
- Streamlined a hybrid cloud strategy using AWS EC2 for development and Frappe Cloud for production, achieving a 40% reduction in non-production infrastructure costs.
- Improved GitHub-to-Production deployment pipeline that enabled seamless code synchronization and auto-scaling, ensuring high availability during peak traffic.

Task Matrix

May 2024 – Sept 2024

- Launched a scalable system using Django, Docker and Electron.js for a team of 58 users.
- Transitioned deployment workflow to Docker-compose, reducing server configuration and setup time by 85%.
- Accelerated Django REST APIs by implementing server-side pagination, which reduced database query load by 80% and minimised payload sizes for efficient data transfer.
- Managed end-to-end on-premise deployment using local DNS resolution, maintaining 100% data residency and complying with internal policies regarding sensitive employee information.
- Integrated a React frontend into an Electron shell to deliver a cross-platform desktop application with seamless backend API connectivity.

SKILLS

- **Infrastructure:** AWS (EKS, ECS Fargate, Lambda, IoT Core, SNS, SQS), Terraform, Cloudflare
- **Container & Orchestration:** Kubernetes, Docker, Helm Charts.
- **CI/CD Automation:** Gitlab CI/CD, GitHub Actions, MonoRepo, Semantic Release.
- **Security & Networking:** VPC, NAT Gateways, AWS WAF, Secret Manager, Route 53, Auth0.
- **Development & Database:** Python, Node.js, Postgres, MongoDB, DynamoDB, Redis

ACHIEVEMENTS

- Secured First Position in 0xDay Hackathon
- Chief student coordinator for 2 years of The Literary Club, HKBKCE
- State level gold medallist for National Cyber Olympiads

LANGUAGES

- **English** (Full Professional Proficiency)
- **Hindi** (Native or Bilingual Proficiency)

DECLARATION

I hereby declare that all the information furnished above is true to the best of my knowledge.

~ Anurag Bhatt