

Anmol Deep Kaur

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WORK EXPERIENCE

DevOps Trainee, Paramotor Digital Technology

Sept 2026 - Present

- Supported AWS application infrastructure across development, UAT, and production, investigating EC2 instances, Elastic Beanstalk, Application Load Balancers, target groups, Route 53 DNS, TLS certificates, and application connectivity to diagnose environment-specific deployment and networking issues.
- Contributed to planning and troubleshooting an AWS application migration from Virginia (us-east-1) to Mumbai (ap-south-1), investigating EC2 deployment dependencies, configuring ALB/ACM components, validating HTTPS connectivity, and assessing Route 53 DNS cutover and rollback procedures to minimize migration risks.
- Conducted security reviews of GitHub Actions CI/CD pipelines and Docker build configurations, examining IAM permissions, deployment approvals, vulnerability scanning, Content Security Policy (CSP), and Nginx HTTP security headers to identify misconfigurations and assess remediation approaches.
- Analyzed AWS billing trends and resource utilization across Amazon RDS, ECS, and networking services, identifying cost optimization opportunities through database rightsizing assessments, unused-resource reviews, and backup/snapshot retention analysis.
- Investigated production security and recovery controls including AWS WAF rate limiting, API Gateway response mappings, PostgreSQL/RDS connectivity, snapshot restoration, cross-region backups, and AWS Health service compatibility notifications.

DevOps Intern

Jul 2026 - Aug 2026

- Supported AWS services including ECS, RDS, API Gateway, S3, Lambda, IAM, CloudWatch, WAF, and Secrets Manager; troubleshooted deployments, networking, DNS, and Nginx/application configuration across multiple environments.
- Improved GitHub Actions deployment security by working on OIDC-based authentication in place of long-lived AWS credentials and integrating Secrets Manager into application deployment configuration.

DevOps Intern, Walkwel Technology Pvt. Ltd.

Jan 2026 - Jun 2026

- Automated repeatable operational workflows using n8n, event-driven webhooks, and REST API integrations to connect internal services, streamline data exchange, and reduce manual intervention in routine processes.
- Implemented an observability stack using Prometheus and Grafana for metrics and dashboards, and Loki/Promtail for centralized log collection; developed alerting and monitoring views to surface service failures and performance bottlenecks.

DevOps Intern, Netsmartz Pvt. Ltd.

Jun 2025 - Aug 2025

- Developed Jenkins CI/CD pipelines for Docker-containerized microservices, automating build, test, and deployment stages and improving deployment success rates from 70% to 85% through more consistent release workflows.
- Deployed and supported Dockerized applications using Kubernetes and AWS (EC2, S3, IAM), collaborating with engineering teams to investigate release failures and improve deployment consistency and reliability.

TECHNICAL SKILLS

- Cloud & Networking: AWS (EC2, ECS, RDS, S3, IAM, Lambda, API Gateway, WAF, CloudWatch, Secrets Manager, ALB, Route 53, ACM, Elastic Beanstalk); DNS, HTTP/HTTPS, load balancing
- DevOps & Automation: Jenkins, GitHub Actions, Docker, Kubernetes, Git, GitHub, CI/CD, n8n, webhooks, Bash, PowerShell, Linux
- Observability & Security: Prometheus, Grafana, Loki, Promtail, CloudWatch, OIDC, IAM, CSP, Nginx security headers
- Programming & Data: Python, C++, SQL, PostgreSQL, REST APIs, JSON

PROJECTS

Hindi - English News Translator and Summarizer

- Improved translation quality (BLEU: 12.01 → 26.03) by engineering an end-to-end NLP pipeline using Transformer models (MarianMT, BART), including dataset curation, preprocessing, and inference optimization across 500+ real-world articles.
- Developed an interactive Streamlit application integrating text preprocessing, translation, and summarization inference into a unified user-facing workflow for Hindi-English news processing.

AI-Driven Rice Field Monitoring & Weed Detection

- Achieved Dice score of 0.91 and IoU of 0.87 by implementing a CRF-enhanced U-Net model for weed segmentation on multispectral imagery, including preprocessing, feature engineering, and model optimization on real-world agricultural datasets.
- Delivered real-time, decision-ready insights by architecting an end-to-end system integrating backend processing, web interface, and Telegram bot, processing 100+ field images and translating model outputs into actionable recommendations.

LEADERSHIP EXPERIENCE

Events & Tech Coordinator, ACM Student Chapter & Frosh Admissions Cell, TIET

Jun 2023 - Apr 2024

- Scaled event reach and engagement by leading a 10-member cross-functional team to design data-driven digital campaigns and build a registration platform, increasing visibility by 20% and improving conversion efficiency by 25%.
- Orchestrated end-to-end execution of large-scale events (3,000+ participants) by coordinating sponsors, vendors, and internal stakeholders, securing 15+ partnerships and ensuring seamless, on-time delivery under tight deadlines.

EDUCATION

Thapar Institute of Engineering and Technology

Patiala, Punjab

Bachelor of Engineering : Electronics and Computer Engineering

Sep 2022 - Jun 2026

Relevant Courses: Data Structures & Algorithms, Operating Systems, Computer Networks, Database Management, Artificial Intelligence, Data Science, Natural Language Processing, Speech Processing & Synthesis, Computer Architecture, Generative AI