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# Mohamed Adel Asar

*DevOps Engineer*

## PROFESSIONAL SUMMARY

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DevOps Engineer with hands-on production experience deploying, operating, and securing cloud-native applications on AWS and Kubernetes. Built and supported production infrastructure for a confidential Legal Tech platform, including k3s, AWS RDS PostgreSQL, AWS S3, AWS Secrets Manager, External Secrets Operator, Cloudflare Tunnel, ingress-nginx, Argo CD GitOps, and Docker-based CI/CD. Strong Linux foundation with practical experience in production troubleshooting, secure access, deployment automation, service routing, secrets management, and cross-team delivery.

## WORK EXPERIENCE

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### DEVOPS ENGINEER

Jan 2026 — Present

#### *Pass Technology*

Remotely

- Responsible for production infrastructure, Kubernetes operations, cloud resources, CI/CD, GitOps, and secure application delivery for a real client-facing Legal Tech platform.
- Designed and operated a production k3s Kubernetes environment on AWS EC2, including a control plane and worker nodes.
- Configured ingress-nginx and Kubernetes Ingress routing for multiple services behind Cloudflare Tunnel, reducing direct public exposure of the cluster.
- Integrated AWS RDS PostgreSQL, private AWS S3 uploads, AWS Secrets Manager, and External
- Secrets Operator to centralize production configuration and reduce secret exposure.
- Built and supported Docker-based deployments for backend APIs, an AI intake FastAPI service, an admin panel, and operational tooling.
- Implemented GitOps-based CI/CD using GitHub Actions, Docker Hub, GitOps repository updates, Argo CD automated sync, Kustomize overlays, and PreSync migration jobs.
- DevSecOps & Security: Container image hardening, vulnerability scanning, secure CI/CD workflows, non-root Docker containers, secrets management, IAM least privilege, Kubernetes secrets handling, External Secrets Operator, Cloudflare Zero Trust, static code analysis with SonarQube, code quality gates, and production access control.
- Improved operational security by exposing Argo CD through Cloudflare Access with OTP allowlisting and restricted read-only access for backend troubleshooting.
- Troubleshoot production issues involving Kubernetes pods, Docker images, RDS SSL connectivity, environment variables, ingress upload limits, CORS, DNS routing, and frontend/backend integration.
- Coordinated with backend/frontend developers and leadership, translating technical infrastructure work into clear business-friendly progress update.
- Automated CI/CD pipelines and optimized cloud infrastructure at Pass Technology, resulting in a 40% reduction in deployment time and increased system reliability.
- View Legal-Tech DevOps Case Study: [github.com/mohamedadel-devops/legal-tech-production-devops-case-study](https://github.com/mohamedadel-devops/legal-tech-production-devops-case-study)

### MARKETING SYSTEMS & SERVER OPERATIONS

Dec 2024 — Dec 2025

#### SPECIALIST

#### *DigitalWave*

- 1 year | Marketing systems, mailing infrastructure, Linux/VPS hosting support.
- Supported a mailing and marketing system used for email campaign operations.
- Worked with Linux/VPS hosting workflows and assisted with deployment and operation of the application on
- a Contabo-style server environment.
- Supported domain, DNS, and email configuration tasks related to marketing infrastructure.
- Helped with server-side troubleshooting, application availability, and operational reliability for the marketing system.
- Managed and optimized marketing automation platforms and server infrastructure to enhance campaign performance and ensure 99.9% system uptime.

## EDUCATION

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### BACHELOR

#### *Arab Open University*

- BA in English Language & Literature - Arab Open University, Cairo, 2019

## SKILLS

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Cloud, Kubernetes & Infrastructure: AWS EC2, AWS RDS PostgreSQL, AWS S3, AWS IAM, VPC, Security Groups, DNS management, Docker, Docker Compose, Kubernetes, k3s, Deployments, Services, Ingress, ingress-nginx, External Secrets Operator, imagePullSecrets, production infrastructure setup, secure service exposure, and Kubernetes troubleshooting.,

CI/CD, GitOps & Operations: GitHub Actions, Docker image pipelines, Docker Hub, Argo CD, GitOps workflows, Kustomize overlays, immutable image tagging, PreSync migration jobs, automated production deployments, Linux administration, SSH tunneling, port forwarding, logs, networking checks, PostgreSQL SSL connectivity, release troubleshooting, and production incident investigation.,

DevSecOps & Security: Container security, Docker image hardening, multi-stage Docker builds, image vulnerability scanning, SonarQube, static code analysis, code quality gates..

## LANGUAGES

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Arabic(*Native*), English(*Professional working proficiency*).

## LINKS

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Website: <https://devops-eng.info>, GitHub: <https://github.com/mohamedadel-devops>, LinkedIn:

<https://www.linkedin.com/in/mohamedadel-devops>, GitHub Case Study:

<https://github.com/mohamedadel-devops/legal-tech-production-devops-case-study>.