

Aswin Shine

Jaipur, India | +91 9636983667 | aswin.shine.dev@gmail.com
aswin-shine.dev | github.com/Aswin-Shine | linkedin.com/in/aswinshine

PROFILE SUMMARY

DevOps engineer focused on **AWS EKS**, **Terraform**, and **GitOps** delivery. Built and deployed a Kubernetes platform from scratch (IaC, CI/CD, Prometheus/Grafana monitoring) and a production **RAG chatbot** using **LangChain** and **Pinecone**. Comfortable owning infrastructure end to end: Linux servers, Nginx/SSL, Docker, and automated pipelines.

TECHNICAL SKILLS & TOOLS

- Containerization & Orchestration: Docker, Kubernetes (K8s), ArgoCD
- Infrastructure as Code (IaC): Terraform, Ansible
- CI/CD & Version Control: Jenkins, GitHub Actions, Git, GitHub
- Monitoring & Observability: Prometheus, Grafana, Loki
- Application Development: React.js, Next.js, TypeScript, JavaScript, Node.js, Express, Python, REST APIs, Figma
- Databases: PostgreSQL, MySQL, Redis, Pinecone (vector), Snowflake
- MLOps: DVC pipelines, MLflow experiment tracking
- Cloud Platforms: AWS (EKS, EC2, RDS, S3, Route 53), OCI
- GenAI/LLM Tooling: LangChain, RAG pipelines, OpenAI API, Pinecone, HuggingFace Transformers
- Linux & Networking: Bash/Python scripting, Linux (Ubuntu/CentOS), Nginx, SSL/TLS (Let's Encrypt), SSH

PROJECTS

Penwave: Cloud-Native Blogging Platform on AWS EKS

- Architected and deployed a full-stack blogging platform (Next.js, Node.js/Express, PostgreSQL, Redis) as a modular monolith on **AWS EKS**, provisioning cluster and networking infrastructure with **Terraform (IaC)**.
- Packaged the platform with multi-stage, multi-arch (amd64/arm64) **Docker** builds and deployed via **Helm** charts across frontend, backend, and ingress services, managed through a GitOps workflow with **ArgoCD**.
- Configured Horizontal Pod Autoscaling (**2–6 replicas**, CPU/memory-based) and integrated **Prometheus**, **Grafana**, **Loki**, and Promtail for real-time metrics, dashboards, and centralized log aggregation.
- Hardened the platform with **Argon2id** password hashing, **JWT** refresh-token rotation, Redis-backed rate limiting, Zod-validated inputs, and **Trivy** image scanning in the CI/CD pipeline.
- Configured **Nginx** as a reverse proxy in front of frontend/backend/monitoring services with HTTP > HTTPS redirect, **Let's Encrypt** SSL/TLS termination, and endpoint-level rate limiting.

Formula 1 RAG Chatbot: Production AI Q&A System

- Built a Python (Flask, **LangChain**) RAG chatbot: **Pinecone** vector search (k=3, cosine) + **OpenAI GPT-4.1-mini**, with SerpAPI web-search fallback and HuggingFace sentence-transformer embeddings (384-dim) over mixed PDF/CSV sources.
- Shipped via a 3-stage **GitHub Actions** pipeline (integration > delivery > deployment) to Docker Hub, deployed on a self-hosted runner on **AWS EC2** over SSH with security-group-managed ports.

EXPERIENCE

Career Transition: DevOps & Cloud | Self-directed | Jul 2025 – Present

- Completed **KodeKloud** labs: Linux (L1-4), Terraform (L1-3), Kubernetes (L1-4), and 100 Days of DevOps.
- Ran Penwave in production on **AWS EC2** (Docker Compose, RDS, ElastiCache, Nginx), then rebuilt it on **EKS**.

Frontend Developer Intern | RAD Techno Services, Jaipur | Jul 2024 – Jul 2025

- Wireframed and prototyped user flows in **Figma/Adobe XD**, then implemented them as reusable **React** components with a shared design-token system.
- Refactored the front-end into a component-based, modular architecture, extracting shared UI logic into reusable hooks and cutting duplicated code by **15%**, which sped up subsequent feature development by **20%**.
- Tuned **Webpack/Vite** build configs (code-splitting, lazy-loaded routes, tree-shaking unused dependencies), cutting bundled application size by **25%** and improving page load times.

EDUCATION

Master's in Computer Applications | Amity University, Noida | 2022 – 2024

CERTIFICATIONS

- Oracle Cloud Infrastructure 2025 Certified Foundations Associate | Oracle | Oct 2025
- 100 Days of DevOps | KodeKloud | Mar 2026
- MLOps Zero to Hero | Udemy | Jan 2026
- Docker Essentials; Introduction to Containers, Kubernetes, and OpenShift | IBM | Nov 2025