

# Amar Jha

Backend Engineer — Cloud & Distributed Systems

✉ [amarjha.dev@gmail.com](mailto:amarjha.dev@gmail.com) — 📞 +91 9199569397 — 📍 Muzaffarpur, Bihar

🔗 Portfolio: [amarjha.dev](http://amarjha.dev) — in [linkedin.com/in/amarjha01](https://linkedin.com/in/amarjha01) — 🐙 [github.com/Amarjha01](https://github.com/Amarjha01)

## SUMMARY

Backend / platform-focused engineer building cloud-native systems and deployment infrastructure. Hands-on experience designing microservices, async workers, containerized runtimes, and AWS-based orchestration. Currently building Axeiro, a Heroku-like deployment platform on AWS ECS with automated builds, service orchestration, and stable application routing.

## SKILLS

**Backend & Systems:** Node.js, Express.js, REST APIs, microservices, async workers, event-driven systems, Socket.IO

**Cloud & Platform:** AWS (ECS, ECR, ALB, IAM, EC2, S3, CloudFront, VPC), container orchestration, deployment automation

**DevOps:** Docker, daemonless builds (Kaniko-style), GitHub Actions, Linux, Nginx

**Databases:** MongoDB **Security:** JWT, OAuth, RBAC, rate limiting

**Frontend (supporting):** React.js, Next.js, Redux Toolkit, Tailwind CSS

**Integrations:** Stripe, OpenAI

**Monitoring & Observability :** Prometheus , Grafana (basic exposure)

**Unit & Integration Testing:** Jest

## PLATFORM ENGINEERING

### • Axeiro – Application Deployment & Runtime Orchestration - [axeiro.com](http://axeiro.com)

- Designing and building a container-based deployment platform similar to Heroku using AWS ECS and Fargate.
- Built a deployment orchestrator managing build jobs, ECS services, task definitions, and a state-driven deployment lifecycle.
- Implemented daemonless container image builds executed through long-running worker processes.
- Designed multi-tenant routing with wildcard DNS and ALB host-based rules for stable application URLs.
- Designed a state-driven deployment system where build-time or runtime failures automatically transition deployments to FAILED with persisted error logs, enabling debugging and controlled redeploys.
- Architected Auth, Build, Deployment, and Notification microservices.
- Implemented OAuth (GitHub/GitLab), JWT, RBAC, structured logging

## EXPERIENCE

- **Feb Tech IT Solutions Pvt. Ltd.** Feb 2025 – Jan 2026  
*Full Stack Developer (SDE I)* *On-site*
  - Designed and deployed production backend infrastructure on AWS with secure Linux configuration, reverse proxying, and SSL.
  - Built real-time backend systems using Socket.IO supporting presence, delivery receipts, and event flows.
  - Implemented authentication systems with JWT, refresh tokens, and role-based access control.
  - Built CI/CD pipelines using GitHub Actions, improving deployment reliability and release consistency.
  - Introduced structured logging and monitoring practices to improve observability and fault diagnosis.

## PROJECTS

- **ParrotConsult – Real-time Consulting Platform - [parrotconsult.com](http://parrotconsult.com)**
  - Built chat, video calling, scheduling, and real-time interactions using Socket.IO + Agora.
  - Deployed production infra on AWS EC2 with Nginx, SSL, and automated CI/CD.
- **Radical Unlearning – Learning Platform - [radical-unlearning.com](http://radical-unlearning.com)**
  - Built dashboards for Admin, Educator, and Learner flows with Stripe billing and JWT auth.
  - Integrated Zoom meetings and OpenAI workflows.

## EDUCATION

- **Phonics Group of Institutions** Roorkee, India  
*B.Tech in Computer Science Engineering* *June 2025*
- **Roorkee College of Engineering** Roorkee, India  
*Diploma in Mechanical Engineering* *July 2020*