

AYUSH SHENDE

Software Engineer • Full-Stack & Cloud Infrastructure

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[in](#) ayush-shende

TECHNICAL SKILLS

Languages:	TypeScript, JavaScript, Python, SQL
Backend & APIs:	Node.js, Express, FastAPI, REST APIs, WebSockets
Frontend & UI:	React, Next.js, TanStack, Tailwind CSS, HTML5, CSS3
Databases:	PostgreSQL, Redis, MongoDB
Cloud & DevOps:	AWS, GCP, AZURE, Terraform (IaC), Docker, Kubernetes, CI/CD - Jenkins, Github Actions, Gitops - ArgoCD, Git, Linux

FEATURED ENGINEERING PROJECTS

Inkspire — Production Multi-Tier Blogging Platform [Live Demo](#) [GitHub](#)

Tech Stack: React, TypeScript, Node.js, Express, PostgreSQL, Prisma, Redis, BullMQ, AWS, Terraform, Docker

- Architected a resilient **3-tier distributed architecture** provisioned via **Terraform (IaC)** on AWS with multi-AZ VPC subnet isolation, private EC2 instances behind Application Load Balancers, and Auto Scaling.
- Implemented secure auth with **JWT access/refresh token rotation** via Redis & HTTP-only cookies, granular RBAC permissions, and **BullMQ background workers** for async email processing.
- Modeled relational schemas with Prisma & PostgreSQL, writing **recursive CTEs** for high-performance nested comments and AWS S3 pre-signed URLs for secure direct-to-cloud uploads.
- Engineered React client with **Tiptap rich text editing**, TanStack Query for caching & optimistic UI updates, automated Axios token refresh interceptors, and CloudFront CDN distribution.

Pizza Box — Real-Time Food Ordering & Admin Platform [GitHub](#)

Tech Stack: FastAPI, Python, SQLAlchemy, PostgreSQL, Redis Pub/Sub, Celery, React, TypeScript, Razorpay, WebSockets

- Built an asynchronous REST API using **FastAPI and SQLAlchemy** with Alembic migrations, guest-to-authenticated cart merging, multi-variant menu management, and **Celery worker queues**.
- Integrated **Razorpay payment gateway** with cryptographic webhook signature verification and automated failover handling for cash-on-delivery transactions.
- Engineered bidirectional **real-time order tracking via WebSockets** backed by **Redis Pub/Sub**, synchronizing order status updates instantly across user and admin dashboards.
- Developed an analytics dashboard using **TanStack Table and Recharts** for real-time sales reporting, revenue metrics, and interactive order fulfillment workflows.

Cloud-Native Kubernetes Deployment on AWS EKS [GitHub](#)

Tech Stack: Kubernetes (EKS), AWS VPC, MySQL StatefulSet, AWS EBS CSI, Route53, ACM, HPA, Docker

- Orchestrated production-grade deployment on a **multi-AZ AWS EKS cluster** with worker nodes in private subnets, managing container lifecycles with liveness, readiness, and startup health probes.
- Configured stateful storage for MySQL using **Kubernetes StatefulSets and AWS EBS CSI driver** with automated volume provisioning and persistent storage guarantees.
- Established ingress traffic routing via **AWS Load Balancer Controller (ALB Ingress)** with ExternalDNS and automated ACM TLS certificates on Route53.
- Enforced zero-trust security: **IAM Roles for Service Accounts (IRSA)** for fine-grained credential-less AWS access, **NetworkPolicies** for micro-segmentation, and hardened non-root container security contexts.

EDUCATION

Bachelor of Engineering in Computer Engineering

Graduated 2022

ISBM College of Engineering, Pune • **CGPA: 8.63 / 10.0**