

Pritam Ghosh

Senior Software Engineer | Full Stack, Platform & GenAI Engineering

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SUMMARY

Senior Full Stack Engineer with 5+ years building production systems at scale across GenAI, voice AI, e-commerce, and SaaS. At Nykaa, leading B2B front-end engineering for 10M+ users — shipped voice agents (Gemini Live, PyCAT, LangGraph), drove test coverage 95%+, cut API latency 25%. Core: TypeScript, React/Next.js, Node.js/Nest.js, Go, Python, AWS. Strong background in engineering mentorship and technical leadership.

WORK EXPERIENCES

Software Engineer II

Jan 2026 – Present

Nykaa E-Retail Limited

Bengaluru, KA, India

Led full stack engineering for **SuperStore** (B2B commerce) and **Disha** (retailer BDE tool) — GenAI, voice-first features, and hybrid Android delivery at scale.

- Shipped three production AI features: a PyCAT + LangGraph voice agent for incoming tele-calling; a Gemini Live outbound call experience with real-time app screen sync via a custom orchestrator; and a LangGraph/Next.js GenAI chatbot with JSON embedding pipeline — 40% accuracy gain, 95%+ test coverage.
- Scaled hybrid Android experience via Next.js WebView — enabled camera, notifications, and file access at 99.9% uptime.
- Established feature flag and A/B testing infrastructure across both products, enabling controlled rollouts and trimming hotfix deploys by 40%.
- **Stack:** TypeScript, React, Next.js, LangGraph, LangChain, Gemini Live, PyCAT, Vector DB, Python, Node.js, Vitest, Android WebView, AWS

Senior Full Stack Developer

Oct 2024 – Dec 2025

Kaamwork Technologies Private Limited

Bengaluru, KA, India

Core engineer of a **Tech EOR SaaS platform** — India's alternative to **Deel/Rippling** — enabling global companies to hire and manage Indian talent without a local legal entity.

- Engineered a cross-border payroll engine (Nest.js, PostgreSQL, Prisma) with GST/TDS-compliant invoicing, multi-gateway payments, and benefits administration — 18% efficiency gain across 100+ enterprise clients.
- Developed a real-time HR operations dashboard (Chart.js) for payroll, appraisals, lifecycle management, and refund processing — trimmed admin overhead 35% while handling sensitive PII and financial data at scale.
- Built a Nest.js microservice API layer (TypeORM, Redis) for horizontal scalability; cut deployment cycle 30% via Jenkins + Docker blue-green CI/CD and accelerated build times 25% via monorepo restructuring.
- **Stack:** Next.js, Nest.js, PostgreSQL, Prisma, TypeORM, Redis, Docker, Jenkins, Chart.js, AWS EC2/S3

Full Stack Developer

Feb 2021 – Oct 2024

Services & Consulting Force SRL

Remote, Rome, Italy

Contracted for an Italian quiz and exam platform (**500K+ daily active users**) — infrastructure, AI automation, SEO, and internal tooling.

- Architected a hybrid Next.js + Node.js platform sustaining 99.9% uptime for 500K+ DAU — 22% infrastructure efficiency gain through architectural consolidation.
- Boosted API response time 25% via PostgreSQL query optimisation and Redis caching; launched an AI-driven CMS pipeline (OCR + PDF) eliminating 50% of editorial overhead.
- Grew organic traffic 30% via technical SEO (Core Web Vitals, SSR) — top-5 Google rankings for 20+ keywords; **led and mentored 2 engineers**, shortening delivery timelines 15%.
- **Stack:** Node.js, Express.js, Next.js, Hugo, PostgreSQL, Redis, React, Docker, CI/CD, Python (OCR)

SKILLS

- Languages:** TypeScript, JavaScript (ES6+), Go, Python, SQL
- Front-End:** React, Next.js, Tailwind CSS, Redux, Zustand, SSR/SSG, PWA, WCAG 2.1
- Back-End:** Node.js, Nest.js, Express.js, Go (Gin), REST API, GraphQL, Microservices, WebSockets
- AI / GenAI:** LangGraph, LangChain, Gemini Live, PyCAT, OpenAI API, RAG, Vector DB, Embedding Models, Prompt Engineering, Agentic AI
- Databases:** PostgreSQL, Redis, MongoDB, Amazon DynamoDB, Prisma, TypeORM, GORM
- DevOps & Cloud:** AWS (EC2, S3, Lambda, DynamoDB, IAM), Docker, Kubernetes, Jenkins, GitHub Actions, NGINX, Traefik
- System Design:** Distributed Systems, High Availability, Caching, Real-Time Sync, Scalability Patterns, SLAs/SLOs, Observability
- Testing:** Vitest, Jest, TDD, Unit - Integration - Component Testing

PROJECTS

- Hospital Inventory Management System** Mar 2025 – May 2025
- RBAC (JWT, Go/Gin, PostgreSQL/GORM) for 50+ concurrent users; automated near-expiry alerts and Excel reporting
 - halved reporting time 40%, stock discrepancies 20%. 99.9% uptime via Dockerised deployment with health checks and automated restarts.
 - **Stack:** Go, Gin, GORM, PostgreSQL, Next.js, Chakra UI, Docker
- Gram Bahar – Full E-Commerce Platform** Oct 2023 – Feb 2024
- Sole architect of a production e-commerce platform from scratch – cart, coupons/offers engine, inventory, multi-gateway payments, shipping, GST invoicing, OTP/email auth, and full admin dashboard with real-time analytics.
 - Reduced checkout latency 35% (SSR + Redis caching) for 10K+ monthly transactions; achieved top-10 Google rankings for 15+ categories via Core Web Vitals optimisation.
 - **Stack:** Next.js (SSR), Node.js, Tailwind CSS, PostgreSQL, Redis

CERTIFICATIONS

- AWS Fundamentals + Architecting Solutions on AWS – Amazon Web Services:** May 2026
- Agentic AI with LangChain & LangGraph – IBM:** May 2026
- DevOps, Cloud & Agile Foundations – IBM | Docker Foundations – Docker, Inc | Kubernetes: Microservices – LinkedIn Learning:** Jun 2025
- Programming with Google Go – UC Irvine | Meta Front-End Developer – Meta:** Jun 2024

EDUCATION

- West Bengal State University – MSc in Computer Science** Jul 2020 – May 2022
- **Relevant Coursework:** Data Structures & Algorithms, Distributed Systems, Database Management
- University of Kalyani – BSc in Computer Science** Jun 2017 – Jul 2020