

Pritam Ghosh

Senior Full Stack & GenAI Engineer | Product, Platform & AI Systems

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SUMMARY

Senior Full Stack & GenAI Engineer with 5+ years building production e-commerce, SaaS, voice AI, and developer platforms. Delivered React/Next.js applications, Node.js/NestJS and Java/Spring Boot services, Go/Python tooling, and agentic AI systems across AWS and GCP. Immediate Joiner with end-to-end delivery and mentoring experience.

WORK EXPERIENCES

Software Engineer II

Nykaa E-Retail Limited | Jan 2026 to Aug 2026 | Bengaluru, Karnataka, India

Full stack engineering for **SuperStore** (B2B commerce), **Disha** (retailer BDE tool), and internal platforms spanning GenAI, voice experiences, Java services, Go tooling, and hybrid Android delivery.

- Shipped three production AI systems: an embedding-based chatbot that improved evaluated accuracy by 40% with 95% automated test coverage; a guarded Pipecat/ LangGraph voice bot with OpenTelemetry tracing; and a Gemini Live orchestrator synchronising the on-screen UI through WebSockets.
- Delivered a full-stack personalised offers and coupons experience, building Java/Spring Boot services and React/Next.js user flows to organise and surface more relevant promotions.
- Built a Go diagnostic dashboard for faster on-call investigation of user data across DynamoDB, MySQL, PostgreSQL, and Redis.
- Developed ETL pipelines for SuperStore and Disha, transforming commerce data for product features and downstream systems.
- Built a unified evaluation platform for chat and voice agents with configurable user profiles, prompt versioning, scoring, and automated detection of loops and latency anomalies.
- Extended a Next.js WebView-based Android experience with camera, notifications, and file access at 99.9% service availability; introduced feature flags and A/B testing across two products, reducing hotfix deployments by 40%.
- **Stack:** TypeScript, React, Next.js, LangGraph, Gemini Live, Pipecat, ETL, WebSockets, OpenTelemetry, JSON embeddings, Python, Node.js, Vitest, Android WebView, AWS

Senior Full Stack Developer

Kaamwork Technologies Private Limited | Oct 2024 to Dec 2025 | Bengaluru, Karnataka, India

Core engineer for a **Tech EOR SaaS platform** enabling global companies to hire, pay, and manage professionals in India.

- Engineered a cross-border payroll engine using NestJS, PostgreSQL, and Prisma, covering GST/TDS-compliant invoicing, multi-gateway payments, and benefits administration; improved operational efficiency by 18% across 100+ enterprise clients.
- Developed a real-time HR operations dashboard for payroll, appraisals, employee lifecycle management, and refund processing, reducing administrative overhead by 35% while handling sensitive PII and financial data.
- Built a NestJS microservice API layer with TypeORM and Redis for horizontal scalability; reduced deployment cycles by 30% through Jenkins and Docker blue-green CI/CD and shortened build times by 25% through monorepo restructuring.
- **Stack:** Next.js, Nest.js, PostgreSQL, Prisma, TypeORM, Redis, Docker, Jenkins, Chart.js, AWS EC2/S3

Full Stack Developer

Services & Consulting Force SRL | Feb 2021 to Oct 2024 | Remote, Rome, Italy

Full stack engineering for an Italian quiz and exam platform serving **500K+ daily active users**, spanning architecture, cloud integrations, AI automation, and SEO.

- Architected a hybrid React/Next.js and Node.js platform sustaining 99.9% uptime for 500K+ daily active users and improving infrastructure efficiency by 22% through architectural consolidation.
- Improved API response time by 25% through PostgreSQL query optimisation and Redis caching; reduced editorial overhead by 50% with a Python OCR/PDF pipeline; and integrated Google APIs using GCP service accounts and gateway-based access controls.
- Increased organic traffic by 30% through Core Web Vitals improvements, SSR, and technical SEO, reaching top-five Google rankings for 20+ keywords; led and mentored two engineers and shortened delivery timelines by 15%.
- **Stack:** Node.js, Express.js, Next.js, Hugo, PostgreSQL, Redis, React, Docker, CI/CD, Python (OCR)

SKILLS

Languages & Back-End: TypeScript, JavaScript, Java, Go, Python, SQL; Node.js, NestJS, Spring Boot, Express.js, Gin, REST APIs, Microservices, WebSockets, ETL

Front-End: React, Next.js, Tailwind CSS, Redux, Zustand, SSR/SSG, PWA

AI / GenAI: LangGraph, LangChain, Gemini Live, Pipecat, OpenAI API, RAG, Vector Databases, Embeddings, Prompt Engineering

Data & Cloud: PostgreSQL, MySQL, Redis, MongoDB, DynamoDB; AWS (EC2, S3, Lambda, IAM), GCP (Compute Engine, Google APIs, Service Accounts, API Gateway)

Platform & Quality: Docker, Kubernetes, Jenkins, GitHub Actions, NGINX, Traefik, OpenTelemetry, Observability, Vitest, Jest, Unit and Integration Testing

PROJECTS

Hospital Inventory Management System | Mar 2025 to May 2025

- Built JWT-based RBAC services with Go, Gin, PostgreSQL, and GORM for 50+ concurrent users; automated near-expiry alerts and Excel reporting, reducing reporting time by 40% and stock discrepancies by 20%; maintained 99.9% availability through Docker health checks and automated restarts.

Gram Bahar - Full E-Commerce Platform | Oct 2023 to Feb 2024

- Sole architect of a production e-commerce platform covering cart, coupons and offers, inventory, multi-gateway payments, shipping, GST invoicing, OTP/email authentication, and an administrative dashboard with real-time analytics.
- Reduced checkout latency by 35% through SSR and Redis caching for 10K+ monthly transactions; achieved top-ten Google rankings for 15+ categories through Core Web Vitals and technical SEO improvements.

CERTIFICATIONS

AWS Fundamentals + Architecting Solutions on AWS - Amazon Web Services: May 2026

Agentic AI with LangChain & LangGraph - IBM: May 2026

DevOps & Cloud: IBM DevOps Foundations; Docker Foundations; Kubernetes Microservices: Jun 2025

Programming with Google Go - UC Irvine | Meta Front-End Developer - Meta: Jun 2024

EDUCATION

Master of Science (M.Sc.) in Computer Science (Post Graduation) — West Bengal State University

Jul 2020 to May 2022 | West Bengal, India

- **Relevant Coursework:** Data Structures & Algorithms, Distributed Systems, Database Management

Bachelor of Science (B.Sc.) in Computer Science (Graduation) — University of Kalyani

Jun 2017 to Jul 2020 | West Bengal, India

LANGUAGES

English: Professional · **Hindi:** Professional · **Bengali:** Native