

# Pritam Ghosh

Senior Software Engineer | Full Stack, Platform & GenAI Engineering

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## SUMMARY

Senior Full Stack Engineer with **5+ years** of experience delivering production systems at scale across e-commerce, SaaS, and Generative AI domains. Currently at **Nykaa** (India's leading beauty unicorn), owning front-end engineering for two B2B product lines serving **10M+ users**. Core stack: **TypeScript, React/Next.js, Node.js/Nest.js, and Go**. Shipped a production-grade **GenAI chatbot** with **LangGraph** and custom embedding-based semantic retrieval; achieved **95%+ test coverage** via **Vitest**, **reduced API latency by 25%** and improved system efficiency by **18-20%**. Experienced in **system design, CI/CD**, cloud infrastructure (**AWS**), and mentoring engineers in **Agile** teams.

## WORK EXPERIENCES

### Software Engineer II

Jan 2026 – Present

Nykaa E-Retail Limited

Bengaluru, KA, India

Owned front-end engineering for **SuperStore** (B2B commerce platform) and **Disha** (retailer-facing BDE tool), shipping GenAI features, improving code quality, and delivering hybrid Android experiences at scale for **10M+ users**.

- **Architected and shipped a production GenAI chatbot** for **SuperStore** and **Disha** using **LangGraph, TypeScript, Next.js, and React** – designed a **custom JSON embedding-based semantic retrieval pipeline** over product and catalogue data, eliminating a separate vector database and **reducing infrastructure overhead to zero** while maintaining contextual recommendation quality. Benchmarked **vector DB vs. custom JSON** approaches; chose lightweight JSON for debuggability and full ownership within the existing stack.
- **Engineered prompt injection defenses and input sanitisation** across the GenAI chatbot layer, hardening the system against adversarial inputs and ensuring safe, reliable responses in a production B2B environment.
- **Drove test coverage from baseline to 95%+** across SuperStore and Disha front-ends using **Vitest** – unit, integration, and component testing – reducing regression risk and increasing release confidence across both product lines.
- **Delivered a hybrid Android experience** for SuperStore by bridging the **Next.js** web layer with native Android APIs via **WebView** interop, enabling camera, notifications, file access, and related device capabilities inside the Nykaa app for **10M+ users**.
- **Accelerated delivery velocity** by integrating AI-assisted coding workflows (**Cursor, GitHub Copilot**) under strict code review, maintaining team standards while cutting boilerplate generation time across SuperStore and Disha.
- **Stack:** TypeScript, React, Next.js, LangGraph, LangChain, Node.js, Vitest, Android WebView, AWS

### Senior Full Stack Developer

Oct 2024 – Dec 2025

Kaamwork Technologies Private Limited

Bengaluru, KA, India

Built and scaled a full-stack B2B SaaS e-commerce platform end-to-end – from cart and checkout to admin analytics, GST compliance, and third-party integrations.

- **Engineered a full-stack e-commerce platform** (**Next.js, Nest.js, PostgreSQL, Prisma**) with product/inventory management, coupon and offers engine, multi-

- gateway payment integration, shipping workflows, **GST-compliant invoicing**, and **role-based access control** for admins and moderators – improving overall system efficiency by **18%**.
- **Built a real-time admin analytics panel** serving **100+ enterprise clients**, with **Chart.js** sales dashboards, payment refund workflows, and shipping status management – reducing order management time by **35%**.
  - **Reduced deployment cycle time by 30%** by implementing **Jenkins + Docker** CI/CD pipelines with **zero-downtime blue-green deployments** and monorepo restructuring that cut build times by **25%**.
  - **Architected a RESTful API layer** with **Nest.js** using modular microservice patterns, **TypeORM** migrations, and **Redis** caching – enabling horizontal scalability for a growing enterprise client base.
  - **Stack:** Next.js, Nest.js, PostgreSQL, Prisma, TypeORM, Redis, Docker, Jenkins, Chart.js, AWS EC2/S3

### Full Stack Developer

Services & Consulting Force SRL

Full-stack engineer on a global content platform serving **500,000+ daily active users**

– built internal tooling that powered admin, editorial, and content management workflows.

- **Maintained 99.9% uptime** for **500,000+ daily users** by engineering a **Next.js + Hugo** hybrid front-end with **Node.js/Express** backends and robust **CI/CD** pipelines – achieving a **22% infrastructure efficiency** gain.
- **Reduced API response time by 25%** through **PostgreSQL** query optimisation (indexes, query planning), **Redis** response caching, and connection pooling on high-traffic endpoints.
- **Built an AI-driven CMS automation pipeline (OCR + PDF extraction)** integrated into the editorial workflow – cutting editorial overhead by **50%** by automating content ingestion and tagging for the question management system.
- **Delivered full-stack internal tooling** – admin dashboard, editor workflow tools, and question management – using **Node.js/Express** APIs and **React** front-ends for teams across the organisation.
- **Grew organic search traffic by 30%** through technical SEO (**Core Web Vitals**, structured data, SSR optimisation), achieving **top-5 Google rankings** for **20+ high-value keywords**.
- **Mentored 2 junior developers** through structured code reviews and best-practice sessions, **reducing team delivery timelines by 15%**.
- **Stack:** Node.js, Express.js, Next.js, Hugo, PostgreSQL, Redis, React, Docker, CI/CD, Python (OCR)

Feb 2021 – Oct 2024

Remote, Rome, Italy

### Freelance Full Stack Developer

Fiverr

Freelance full-stack delivery for global clients with a focus on performance and reliability.

- **Delivered 15+ full-stack projects (React, Node.js, MongoDB)** with consistent **5-star** client ratings – **reduced average API response times by 20%** across **10+ high-traffic** client platforms.
- **Stack:** React, Node.js, MongoDB, REST APIs

Jan 2021 – Jun 2021

Remote

## PROJECTS

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### Hospital Inventory Management System

Mar 2025 – May 2025

[Project Link](#)

Full-stack real-time inventory system for healthcare facilities.

- **Proactive inventory alerts** – automated near-expiry and stock-out notifications, reducing waste and preventing supply gaps across hospital departments.
- **Role-based access control (JWT, Go/Gin, PostgreSQL/GORM)** for 50+ concurrent hospital users across admin and staff roles.
- **Downloadable Excel reporting** for stock levels and expiry tracking, cutting manual reporting time by 40% and stock discrepancies by 20%.
- **Achieved 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

[Project Link](#)

End-to-end commerce platform with catalogue, payments, inventory, GST invoicing, and admin operations.

- **End-to-end commerce platform** – product catalogue, cart, coupons, offers engine, checkout, payment gateway integration, order and inventory management, **GST-compliant invoicing**, shipping integration, and admin analytics.
- **Reduced checkout latency by 35%** for 10,000+ monthly transactions through SSR optimisation and API response caching.
- **Top-10 Google rankings** for 15+ product categories via **Next.js SSR**, structured data, and **Core Web Vitals** optimisation.
- **Role-based operations** for admins and moderators with audit logging.
- **Stack:** Next.js (SSR), Node.js, Tailwind CSS, PostgreSQL, Redis

## SKILLS

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**AI / GenAI:** LangGraph, LangChain, OpenAI API, Embedding Models, RAG (Retrieval-Augmented Generation), Custom Semantic Retrieval, Prompt Engineering, Prompt Injection Defense, Agentic AI

**Languages:** TypeScript, JavaScript (ES6+), Go, Python, SQL

**Front-End:** React, Next.js, Tailwind CSS, Redux, Zustand, SCSS, PWA, Webpack, Accessibility (WCAG 2.1), Server-Side Rendering (SSR), Static Site Generation (SSG)

**Back-End:** Node.js, Nest.js, Express.js, Go (Gin), REST API, GraphQL, Microservices, WebSockets

**Databases:** PostgreSQL, Redis, MongoDB, Prisma, TypeORM, GORM, DynamoDB

**Testing:** Vitest, Jest, Unit Testing, Integration Testing, Component Testing, Test-Driven Development (TDD)

**DevOps & Cloud:** AWS (EC2, S3, DynamoDB, IAM, Lambda), Docker, Kubernetes, Jenkins, NGINX, CI/CD, Blue-Green Deployment, GitHub Actions

**System Design:** Distributed Systems, API Design, Caching Strategies, Database Optimisation, High Availability Architecture, Scalability Patterns


**Soft Skills:** Technical Leadership, Mentorship, Cross-functional Collaboration, Agile/Scrum, Problem-Solving


## CERTIFICATIONS

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**Agentic AI with LangChain and LangGraph:** IBM – May 2026 · LangChain, LangGraph, RAG, Prompt Engineering


**AWS Fundamentals Specialization:** Amazon Web Services – May 2026 · EC2, S3, IAM, DynamoDB, Cloud Architecture

**Architecting Solutions on AWS: Amazon Web Services** — May 2026 · Solution Architecture, High Availability, Security  
**DevOps, Cloud & Agile Foundations Specialization: IBM** — Jun 2025 · Agile, Cloud, CI/CD, DevOps, Microservices · [Badge](#) 

**Docker Foundations Professional Certificate: Docker, Inc** — May 2025 · Containerization, Docker · [Certificate](#) 

**Kubernetes: Microservices: LinkedIn Learning** — Jun 2025 · Kubernetes, Microservices, Orchestration, Service Mesh

**Programming with Google Go Specialization: UC Irvine** — Sep 2024 · Go, Data Structures, Algorithms · [Certificate](#) 

**Meta Front-End Developer Specialization: Meta** — Jun 2024 · React.js, CSS, HTML, JavaScript ES6 · [Badge](#) 

## EDUCATION

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**West Bengal State University** — *MSc in Computer Science* Jul 2020 – May 2022

**University of Kalyani** — *BSc in Computer Science* Jun 2017 – Jul 2020