Pritam Ghosh

Senior Full-Stack Engineer

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SUMMARY

Senior full-stack engineer with 5+ years of experience building and operating production platforms (React, Next.js, Node.js, NestJS, Python, Go) across e-commerce, B2B commerce, education technology, HR/payroll SaaS and healthcare. Delivered LLM-based RAG and voice agents, microservice APIs and CI/CD pipelines on AWS and Kubernetes, and mentored 2 engineers

WORK EXPERIENCE

Software Engineer II

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

- Shipped 3 production AI chat/voice services with Python, FastAPI, and LangChain, resolving 75% of customer support issues and reducing support team headcount by 60%
- Delivered React/Next.js offers, coupons, feature flags, and A/B testing for commerce releases on a B2B platform serving 500K retailers; contributed to Java/Spring Boot services
- Built a Go on-call diagnostics dashboard for engineers across DynamoDB, MySQL, PostgreSQL, and Redis; cut lookup time from 3-10 minutes to an estimated 30 seconds and hotfix deployments by 40%
- Owned RAG retail assistant production rollout; cut manual user-action time from 3 minutes to 30 seconds, with latency under 5 seconds
- Designed LangGraph retrieval/tool-calling states with JSON-stored embeddings, caching, and recovery paths for a bounded catalogue without a vector database; synchronised Gemini Live cart/checkout state across Next.js/Android via WebSockets
- Automated approximately 300 agent test cases with simulated profiles and LLM-judge scoring (intent, relevance, fluency, safety); added Git-backed prompt rollback, Zod/JSON Schema input validation, isolated backend actions, OpenTelemetry tracing, and structured audit logs
- Coordinated with product, DevOps, and SecOps on service security checks and server capacity expansion

Senior Full Stack Developer

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

- Engineered horizontally scalable payroll microservice APIs with Node.js/NestJS, TypeORM, and Redis for an HR/payroll SaaS platform serving approximately 300 companies
- Partnered cross-functionally with HR/accounting to clarify requirements; collaborated within a team of approximately 4 engineers to deliver Node.js/NestJS payment, invoicing, and dashboard APIs with PostgreSQL/Prisma for 100+ clients
- Deployed Node.js/NestJS services with Jenkins/Docker CI/CD and Kubernetes blue-green releases; restructured the repository, shortening deployment cycles by roughly 30% and build times by about 25%

Full Stack Developer

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

- Architected static Hugo pages and interactive Next.js/Node.js quizzes for an online exam-preparation platform with 500K+ DAU on load-balanced stateless servers; tuned PostgreSQL indexes and Redis caching for an estimated 25% lower API response time
- Built Python OCR/PDF text extraction for editorial applications using Google APIs, GCP service accounts, and access controls
- Led React/Next.js front-end development, improving server-side rendering and Core Web Vitals to increase organic traffic by around 30%
- Mentored 2 engineers through onboarding, pair programming, task planning, and design discussions

TECHNICAL SKILLS

Full-Stack: TypeScript, JavaScript, React, Next.js, Node.js, NestJS, REST APIs, microservices, WebSockets, SSR/SSG

Backend: Python, FastAPI, Go, Java, Express.js, distributed systems, PostgreSQL, SQL indexing and query tuning, Redis, MySQL, DynamoDB, ETL

Applied AI: LLMs, AI agents, LLM APIs, Gemini Live, LangChain, LangGraph, state machines, retrieval-augmented generation (RAG), embeddings, Pipecat, agent evaluation, prompt versioning, guardrails, Zod/JSON Schema

Cloud & DevOps: AWS (EC2, S3), GCP (Google APIs, Service Accounts), Azure, Docker, Kubernetes, Jenkins, CI/CD, blue-green deployments

Testing & Observability: Vitest, Jest, unit and integration testing, OpenTelemetry, structured audit logs

SELECTED PROJECTS

Hospital Inventory Management System (Healthcare) | Mar 2025 to May 2025

- Implemented Go/Gin APIs for a healthcare inventory platform serving 50+ concurrent users with PostgreSQL/GORM, JWT authentication, role-based access control (RBAC), Docker health checks, and automatic restarts
- Introduced Go/PostgreSQL near-expiry inventory alerts and Excel reporting, cutting reporting time by 40% and stock discrepancies by 20%

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

- Launched a Next.js/Node.js/Python e-commerce platform as sole technical owner, serving 20K+ monthly users and supporting INR 3,000,000 in monthly revenue
- Reduced checkout completion time by 35% with Redis caching and server-side rendering in Next.js
- Integrated Next.js checkout with Node.js services for 3+ payment gateways, OTP/email authentication, inventory, shipping, and order tracking

COURSES

AWS Fundamentals + Architecting Solutions on AWS: May 2026

Agentic AI with LangChain & LangGraph - IBM: May 2026

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

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

EDUCATION

Master of Science (M.Sc.) in Computer Science - West Bengal State University

Jul 2020 to May 2022 | West Bengal, India

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

Jun 2017 to Jul 2020 | West Bengal, India

LANGUAGES

English & Hindi (professional); Bengali (native)