

PRITAM CHAKROBORTY

Full Stack Generative AI Engineer

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EXPERIENCE

Software Developer — Prep-Piper 2025 – Present

- Built and owned the core AI and full-stack architecture for Prep-Piper, an AI-powered interview preparation platform used for adaptive mock interviews and real-time performance analytics.
- Implemented production-grade Agentic Workflows and RAG Systems using LangChain and LangGraph to deliver personalized, real-time interview analysis, feedback, and coaching flows.
- Key technologies: Next.js, React, TypeScript, Node.js, LangChain, LangGraph, AI SDK, Vector DB.

Full Stack Developer — TruPass 2025 – 2026

- Owned end-to-end architecture of the TruPass merchant platform — from PostgreSQL schema design and Python backend APIs to Next.js frontend, containerized with Docker and deployed on AWS (S3, EC2).
- Designed and built RESTful backend services in Python with Redis caching, powering merchant operations including billing, access control, and team management.
- Engineered a full-featured merchant dashboard with real-time analytics and transaction visibility using Next.js, React, Tailwind CSS, and Framer Motion.
- Designed and implemented a role-based access control (RBAC) system with granular permission levels, a team invitation flow, and a self-serve billing module covering plan selection, usage tracking, and payment history.

Frontend Developer — Chingu Dec 2023 – Mar 2024

- Developed interactive web experiences with dynamic motion using Next.js, Framer Motion, and Tailwind CSS.
- Mentored a team of five developers using Agile methodology, improving delivery predictability by 60%.

Trainee Full Stack Developer — 0101 DIGIT ALL Feb 2023 – Apr 2023

- Developed and deployed a resume-less hiring platform using reusable React components, improving development speed by 25%.
 - Collaborated with senior developers, increasing sprint velocity by 30% and reducing bug-related rework by 45%.
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FEATURED PROJECTS

Prep Piper AI Interviewer — [View Project](#)

- AI-powered interview prep platform with adaptive question generation, real-time feedback via agentic workflows, detailed performance analytics, and personalized coaching paths.
- Stack: Next.js · TypeScript · LangChain · LangGraph · AI SDK · RAG · Vector DB

Zapier Automation Microservice — [GitHub](#)

- Event-driven automation platform processing email sending and bounty disbursement within 200ms using Kafka pub-sub architecture and a microservice design.
- Stack: Node.js · Kafka · PostgreSQL · Prisma · Next.js

ImageWhisper AI — [GitHub](#)

- Serverless AI image analysis function delivering automated visual interpretation under 300ms using OpenAI Vision API with rate limiting and real-time user feedback.
- Stack: Next.js · OpenAI Vision API · TypeScript

TECHNICAL SKILLS

Generative AI: LangChain, LangGraph, LangSmith, Crew AI, Manus AI, RAG Systems, Agentic Workflows, OpenAI API, AI SDK, n8n, Prompt Engineering

Frontend: React, Next.js, TypeScript, JavaScript, Tailwind CSS, Framer Motion, Redux, Recoil, Clean UX, Accessibility, Web Performance

Backend: Node.js, Express, Hono, FastAPI, Python, Kafka, RabbitMQ, Redis, WebRTC, REST APIs, Microservices

Database & Infra: PostgreSQL, MongoDB, Prisma, Mongoose, Vector DB, Docker, AWS (S3, EC2), Kubernetes

Observability: Prometheus, Grafana, New Relic, LangSmith

Tools & Practices: Git, Agile, RBAC, Motion Design, CI/CD

EDUCATION

Bachelor of Science in Computer Science 2021 – 2023

Barasat College, West Bengal, India — *Top 5% of the batch*

CERTIFICATIONS & ACHIEVEMENTS

- 100x Devs Full Stack Development Course (Nov 2024)
- Scrimba AI Engineering Path (Feb 2025)
- Won JavaScriptmas Coding Challenge among 5,000+ students at Scrimba