

Saptyadeep Bhattacharjee

+91 9123699383 | bsaptyadeep@gmail.com | GitHub | LeetCode | LinkedIn

PROFESSIONAL SUMMARY

Full-stack Engineer with 2.5+ years of experience in AI products, real-time streaming, and scalable frontend development. Developed GraphQL, chat workflows and reusable AI tooling. Top 5% (Knight) Competitive Coder at Leetcode.

WORK EXPERIENCE

Techolution

March 2024 — Present

Full Stack Developer

Hyderabad, India

- Led frontend architecture and development for a **\$1.6M enterprise AI product**, delivering a scalable, production-grade reporting platform, with **multi-modal ingestion workflows** (audio, video, images, documents, Drive), enabling AI-driven report generation.
- Designed a **GraphQL-based** chat component UI, for **AI clarification loop** that gathered contextual inputs while drafting reports concurrently, improving report accuracy by **15%**. Integrated the chat with **Real-time AI feedback** mechanism for reinforcement learning.
- Built a **citation-backed Markdown rendering system**, ensuring each report line is traceable to source media with relevance scores. Optimized citation media loading using **TanStack Query caching**, reducing redundant fetches and improving load times by **35%**.
- Built an **AI-powered VS Code extension** that transforms images into **React UI code** via **LLMs**; implemented chunked response handling with pause/resume & live rendering in **WebContainers**. Optimized try-out functionality, to improve React code validity time by **90%**.
- Created a reusable **npm package** for AI citation rendering with **React Markdown**, adopted by **3 internal teams**, reducing duplicated UI development by **25–30%**. Partnered cross-functionally with AI, backend, and product teams to ship features on schedule and design reusable **frontend primitives** for future AI products.

Full Stack Developer Internship

July 2023 — March 2024

- Accomplished scalable reinforcement learning management for 35+ production AI models, as measured by secure **HIPAA-compliant** backend and **SonarQube-verified 100%** code quality, by building a full-stack **MERN** application supporting 8 resource types, optimized **MongoDB queries**, model metrics tracking, real-time **WebSocket notifications**, and automated email alerts.

Softnerv Technology

July 2022 — Nov 2022

Software Engineer Internship

Remote

- Developed a scalable Doctor appointment booking functionality for a doctor discovery platform, measured by seamless GCP deployment and microservice integration, by developing a **React** frontend with **Redux**, containerizing the app with **Docker**.

EDUCATION

Bachelor Of Engineering, Information Technology, The University of Burdwan, CGPA: 8.37

2020 — 2024

Higher Secondary, PCM, Council for the Indian School Certificate Examinations, Percentage: 88.5%

2018 — 2020

TECHNICAL SKILLS

Frontend	React.js, Next.js, HTML5, CSS3, Webpack, JavaScript, TypeScript, Redux, TanStack, Zustand, Tailwind, Webcontainer, VS Code extension development
Backend	Python, JAVA, C/C++, FastAPI, Node.js, Express.js, passport.js, Swagger UI, WebSocket, Rest API
Database	MongoDB, PostgreSQL, MySQL, Firebase, Pinecone (Vector DB)
Tools	Jira, Git, Docker, GCP

ACHIEVEMENTS

- 915 / 27686** rank in Leetcode Weekly Contest 446. Current rating **1855, Knight (top 5.73%) at Leetcode**.
- 958/1 Lakh** rank in **TCS Codevita pre-Qualifier** season 10 out of 1 Lakh participants.
- 4 star(1808)** coder at **Codechef**. Ranked **315** at April Lunchtime 2022 Division 2 codechef.
- Green Coder (1393)** at **Codeforces**. **1509/12190 rank** in Codeforces Round 793 (Div. 2).

PERSONAL PROJECTS

Quiz Master, An AI powered Quiz Generator website

Github Repo

- Engineered a full-stack **RAG-based** quiz generation platform that converts public website URLs into shareable quizzes.
- Designed a scalable **web-scraping** and ingestion pipeline to extract structured topics for an **LLM-powered workflow**.
- Optimized quiz generation performance by caching processed pages and deduplicating embeddings to reduce latency by **60%**.

zustbio-ui, A Figma style linear gradient selector npm package

Github Repo

- Engineered and published** a reusable UI design utilities library on npm to accelerate consistent frontend development.
- Implemented** an SEO-friendly public landing page with API documentation and usage examples to improve developer onboarding.
- Improved developer adoption** through TypeScript-first APIs, modular, tree-shakable exports, and clear documentation.