

Arpan Sarkar

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SUMMARY

Software Developer with production experience across healthcare, hiring, and manufacturing platforms.

TypeScript-first engineer building **NestJS** and **Node.js** microservices over **PostgreSQL** and **Redis**, deployed on **AWS** with **CI/CD**, and **AI** features on **RAG**, vector search, and agent pipelines. Open-source contributor to **FOSSAsia** and **Nano Collective**.

EXPERIENCE

Teksor AI

Remote, Malaysia

SDE

Sept 2026 – Present

- Developing a **healthcare platform**, building **TypeScript** services across frontend and backend.
- Delivered an end-to-end production website for a **Singapore-based client**, owning architecture, implementation, and release.

Sequoia Print Pvt. Ltd

Kolkata, India

Full Stack Developer Intern

June 2026 – Aug 2026

- Deployed the company's end-to-end **client-facing website** to production, owning frontend, backend, and release pipeline.
- Built an internal management platform in **NestJS** over **MySQL**, covering attendance, leave, and role-scoped access for a **45+ headcount** organisation.
- Shipped a **WhatsApp automation bot** with AI-generated reminders and shift scheduling for **100+ staff**, live in production behind an **AWS CI/CD** pipeline.

Freelance Developer

Remote

Full Stack Developer

Nov 2025 – May 2026

- Delivered a **hospital management system** for **2 hospitals** spanning IPD, OPD, doctor, and accounts modules with **14+ role RBAC**.
- Built a **VRMS and US-focused hiring platform** for a US client, covering vendor, job, and recruiter management workflows.
- Shipped a **coaching management system** for a computer training center covering batches, attendance, fee collection, and **exam management** for **500+ students**.

PROJECTS

Recall — AI Second Brain Ecosystem | *Next.js, Express, BullMQ, Pinecone, Redis*

[Live](#) | [Code](#)

- Architected a two-service **monorepo** with a **BullMQ/Redis** ingestion pipeline running multi-strategy chunking off the request path.
- Integrated **semantic search** over 1024-dimension OpenAI vectors, resolving Pinecone queries in **under 150ms**.

FixFlow — AI-Powered SRE Platform | *MERN, TypeScript, Socket.io, Gemini API*

[Live](#)

- Architected a **zero-touch incident lifecycle** engine automating detection, creation, and resolution over real-time **Socket.io** push flows.
- Built a cascading AI pipeline (**Gemini Pro** → **Groq LLaMA** fallback) generating structured **RCA postmortems** and remediation scripts.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Go, SQL

Backend: Node.js, NestJS, Express.js, REST APIs, WebSockets, BullMQ, Microservices

Frontend: Next.js, React, Tailwind CSS

AI & ML: RAG, Vector Search, LangChain, LangGraph, Model Context Protocol (MCP), OpenAI API, Gemini API

Databases: PostgreSQL, MySQL, MongoDB, Redis, Pinecone, Prisma ORM

Cloud & DevOps: AWS, Docker, Kubernetes, CI/CD, GitHub Actions

CS Fundamentals: Data Structures and Algorithms, OOP, DBMS, Operating Systems, Computer Networks, System Design

EDUCATION

Brainware University

West Bengal, India

B.Tech in Computer Science and Engineering (AI & ML) | CGPA: 9.57

July 2024 – Aug 2028

ACHIEVEMENTS

Open Source: **20+ pull requests merged** across **FOSSAsia**, **CopilotKit**, and **Nano Collective**; GSSoC 2025 & 2026 contributor.

Hackathons: **Best UX Design** - Sheriyans 2026 | Finalist - India Innovates | Finalist - NeuroHack, IIT Madras.