Gopikanta Mondal

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Summary

Full Stack Developer skilled in building scalable web apps, real-time systems, and AI-powered RAG/Agent solutions. Focused on clean architecture, performance, and distributed systems design.

Projects

- **CoderRoute – Competitive Coding Platform**   Live | GitHub
  - Full-stack platform for practicing competitive programming with **live collaboration** and **real-time code editing**.
  - Integrated **multi-language code execution** using Judge0 with sandboxed execution and async job handling.
  - Added **AI-generated problems, hints, and code suggestions** using Groq API with custom prompt pipelines.
  - Implemented **role-based authentication**, user profiles, progress tracking, streaks, and rankings.
  - Designed database schema for scalable leaderboards and efficient session state management.
  - Stack: React, TailwindCSS, ShadcnUI, Node.js, Express.js, PostgreSQL, Prisma, Judge0, Groq API.

- **HelloTalk – Real-Time Chat & Calling Platform**   Live | GitHub
  - Developed a **real-time chat system** with message receipts, typing indicators, online presence, and group chat support.
  - Implemented **WebRTC-based audio/video calling** including STUN/TURN support for NAT traversal.
  - Built an **admin dashboard** with moderation tools, analytics charts, and user activity controls.
  - Added secure authentication, Cloudinary-based media uploads, and optimized message persistence.
  - Stack: React, Redux Toolkit, Node.js, Express.js, MongoDB, Socket.IO, WebRTC, Cloudinary.

Technologies

Primary: JavaScript, Node.js, React, PostgreSQL, Prisma, Docker, Git

Backend: Node.js, Express, REST, WebSockets, Socket.IO, WebRTC, Redis (Caching), BullMQ, Prisma, Auth, Rate Limiting

Frontend: React, Redux, Zustand, Tailwind CSS, Shadcn UI

Databases: PostgreSQL, MySQL, MongoDB

GenAI: LangChainJS, OpenAI API, Groq, Google GenAI, Pinecone

DevOps & Deployment: Linux, Docker, Nginx, AWS, GitHub Actions, PM2

Familiar: Java, C++, Python

Education

- **Government College of Engineering and Leather Technology**   Nov 2022 – June 2026
  B.Tech in Computer Science and Engineering (CGPA: 8.55/10)   Kolkata, India

- **Memari V.M. Institution (Unit 1)**   2014 – 2022
  Higher Secondary (WBCHSE): 92.4%   —   Secondary (WBBSE): 97.85%   Memari, India

Achievements & Certifications

- Completed **Full Stack Web Development Cohort (160+ hrs)** from ChaiCode. Certificate Link

- Secured **AIR 3575** in **GATE 2025**. Rank Card Link

- Core Team Member, **Google Developer Group (GDG) Web Development**.