

Debopam Roy

debo.roy79@gmail.com | +91-6290060688 | LinkedIn | GitHub | LeetCode | Portfolio

Experience

Senior Software Engineer November 2025 – Present
Precanto Labs (Remote) Bangalore, IN

- * Developed threaded commenting feature with user tagging, RBAC, and nested replies. Integrated email notifications with deep-linking to enable direct navigation to specific comments.
- * Implemented in-memory caching layer in GO-ETL with four-bucket hash map partitioning for entity and category mappings. Reduced DB queries from $O(N)$ to $O(1)$ per entity, concurrent-safe read access.
- * Built Vendor Dashboard API endpoints with summary data aggregation and CSV export functionality.

Full Stack Software Developer April 2025 – October 2025
Metasage AI (Remote) Bangalore, IN

- * Architected enterprise placement platform with RBAC, RLS and using NestJS and Supabase Edge Functions for AI resume analysis and eligibility validation with ReactJS frontend, serving 17,000+ students with <300ms query performance. Engineered CI/CD pipeline with GitHub Actions orchestrating multi-tier deployments.
- * Built end-to-end CRM with Gmail Pub/Sub integration, rate limiting, and Recall.ai for real-time call recording.
- * Implemented OAuth 2.0 (LinkedIn PKCE, Google SSO) with PostHog analytics, Sentry error tracking, Incident.io monitoring, and Thena.ai support automation for comprehensive observability.

Executive Software Developer January 2023 – April 2025
FeedSense AI Private Limited (Vista Intelligence Private Limited) Kolkata, IN

- * Developed live portfolio hedging system using asset Greeks and Beta trends with Python algorithms, achieving 80% reduction in risk exposure.
- * Designed master-slave database architecture reducing transaction locking and improving data retrieval.
- * Integrated Redis caching with LRU eviction policy and automated cache management scripts, reducing page render time by 50% in ISH application.

Projects

Realtime Collaborative Code Editor - CodeFlow github.com/codeflow

- * Built Socket.IO-based collaborative code editor with multi-language support, live compilation in isolated environments, and real-time input-output testing for secure and public rooms.
- * Optimized real-time synchronization using CRDT (Y.js) for conflict-free collaborative editing; reduced server load by upgrading authenticated connections from Socket.IO to WebRTC in heavy-traffic rooms.
- * Implemented 1:1 and group chat alongside code editor with Redis for session management.

Education

Ramakrishna Mission Vivekananda University August 2021 – April 2023
Masters in Computer Science – CGPA: 7.3/10

University of Calcutta April 2018 – July 2021
Bachelors in Computer Science – CGPA: 7.2/10

Technical Skills

Languages: JavaScript/TypeScript, Python, C++, SQL, Golang

Databases: PostgreSQL, MongoDB, Redis

Frontend: React, Next.js, HTML, CSS, Tailwind CSS, Bootstrap

Backend: Node.js, NestJS, GraphQL, Supabase

Tools & Cloud: Git, Docker, Linux, VS Code, Postman, Claude.ai, Cursor AI, GCP, AWS, Vercel, Cloudflare

Works & Achievements

- * Architected a scalable food-ordering platform **🍷 Swaadly** serving 50,000+ MAU with secure payments, coupon-based discounts, and live order tracking.
- * Developed and published an android application **📧 Messenger for Messages & Chat** during an internship with 100,000+ downloads on Google Play Store.
- * Solved 1000+ coding problems across LeetCode, CodeChef, and GeeksForGeeks platforms.