

Shivayan Chakravarty

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Education

Assam Engineering College, Guwahati

Bachelor of Technology in Electronics and Telecommunication

2023 – 2027

CGPA: 7.83/10

Technical Skills

Languages: Java, TypeScript, JavaScript, Python, C++, C, SQL

Frameworks & APIs: Node.js, Express.js, React.js, Next.js, Tailwind CSS, REST, GraphQL, Socket.IO

Databases & DevOps: PostgreSQL, MongoDB, Redis, RabbitMQ, Docker, GitHub Actions, Git, Cloudinary

AI / LLM: LangChain, LangGraph, RAG, Gemini and Groq APIs, LLM pipelines, prompt engineering

Core CS: DSA, OOP, System Design (HLD/LLD), Microservices, Distributed Systems, OS, Networks

Experience

Software Engineer Intern

Aug 2026 – Present

Vibrnd

Guwahati, Assam

- Designed and built a **modular workflow platform** with **10+ interdependent modules**, scoped **role-based access control (RBAC)**, and multi-step allocation, invitation, and approval workflows.
- Modeled a **4-level hierarchical relational schema** with parent-child ownership, preserving **referential integrity**.
- Reduced latency on hot read paths with **Redis caching**, cut DB connection overhead via **connection pooling**, and offloaded bulk notifications and background jobs to **async workers**.
- Built a **multi-role registration system** end-to-end: separate submission flows per applicant type, an **admin review and approval workflow**, and a transactional email pipeline with **retry handling**.

Projects

Syntropy: AI-Powered Assessment Engine - [Live](#) | [Source Code](#)

Aug 2025

Next.js, Express.js, MongoDB, TypeScript, Redis, RabbitMQ, Docker, Gemini, Groq

- Designed a **microservices architecture** of 5+ Dockerized services that scale and fail independently.
- Offloaded email, document processing, and AI evaluation to **RabbitMQ async workers**, keeping APIs fast.
- Built an **LLM pipeline** for PDF extraction and response validation, plus **WebSocket**-driven live timed tests.
- Automated answer evaluation with **prompt-optimized LLM scoring** across Gemini and Groq models.

Vector: Context-Based Social Media Platform - [Live](#) | [Source Code](#)

Jan 2026

Next.js, Node.js, Express.js, MongoDB, Socket.IO

- Implemented secure auth with **HTTP-only cookie JWTs** and **Google OAuth 2.0** over a **RESTful API**.
- Built **real-time messaging** with **Socket.IO**: live delivery, read receipts, and deletes synced across clients.
- Modeled a **social graph** with posts, likes, comments, follows, private accounts, and follow requests.
- Developed an **event-driven notification system** with read, delete, and bulk-clear operations.
- Built **profile onboarding** with avatar uploads and secure session management across user accounts.

Coding Profiles

- [Codeforces](#): **Specialist** (Max Rating 1419), 150+ problems solved
- [LeetCode](#): **500+** problems solved across DSA topics

Positions of Responsibility

Project Admin - Vector

May 2026 – Jul 2026

Nexus Spring of Code

Remote

- Reviewed and merged **200+** pull requests and mentored **50+** open-source contributors.

President - Coding Club

Jul 2025 – Jun 2026

Assam Engineering College

Guwahati

- Organized **15+** technical events and mentored students in **DSA, CP, and software engineering**.