

Amitava Biswas

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Education

Narula Institute of Technology

Bachelor of Technology - Electronics & Communication Engineering; GPA: 7.5

Kolkata, India

July 2025 - June 2029

Courses: Data Structures, Object-Oriented Programming, Digital Electronics, Operating Systems, Computer Networks

Skills Summary

- **Languages:** JavaScript/Typescript, Python, Java, SQL
- **Frameworks:** Node.js, Express.js, React.js, Tailwind CSS, Jest, Multer, Zod, pdf-parse, OpenCV, MediaPipe, NumPy, Pandas
- **Databases:** MongoDB
- **Tools:** Git & GitHub, VS Code, IntelliJ IDEA, Postman, Vercel
- **Concepts:** REST API Design, MVC Architecture, JWT Authentication, OTP-based Auth, Schema Validation, Computer Vision

Projects

Backend Ledger - Financial Transaction & Ledger API (Backend, REST API, Auth)

2026

Scalable Node.js/Express backend for financial transactions, ledger entries, and account management, built with MongoDB transactional integrity and JWT-based authentication. Tech: Node.js, Express.js, MongoDB, Mongoose, JWT, Nodemailer

- **Double-Entry Ledger:** Designed account, transaction, and ledger models to support accurate double-entry bookkeeping.
- **Layered Auth:** Two-tier JWT middleware — standard user auth plus a system-level auth path for internal operations like fund seeding.
- **API Design:** RESTful endpoints for auth, account creation/balance lookup, and transaction processing, following an MVC-style controller/route structure.
- **Github:** github.com/amitava-code/Backend_Ledger_V2
- **Live :** <https://backend-ledger-b08x.onrender.com>

CVify - AI-Powered Resume Analysis Platform (Full-Stack, AI Integration, REST API) — (Work In Progress)

2026

Full-stack MERN application that processes PDF resumes through Google Gemini API to generate structured interview reports — match score, strengths, weaknesses, and improvement suggestions. Tech: Node.js, Express.js, React.js, MongoDB, Gemini API, JWT, Zod, Tailwind CSS, Jest, Vercel

- **REST API Design:** Clean layered architecture (Route → Controller → PDF Parser → AI Processor → Zod-validated JSON) following MVC principles for scalability.
- **AI Integration:** Structured Gemini API prompting with Zod schema enforcement ensuring consistent, parseable AI output even on malformed responses.
- **Auth & Testing:** JWT-based authentication with protected routes; unit tests written in Jest.
- **Github:** github.com/amitava-code/CVify

Gemini Chatbot - Multi-Turn Conversational AI Assistant (AI Integration, Python)

2026

Gemini-powered chatbot built with Streamlit that supports multi-turn conversations with full session memory, alongside a terminal-based CLI version for lightweight testing. Tech: Python, Streamlit, Google Gemini API

- **Session Memory:** Maintains full conversational context across turns so the model responds coherently to follow-up questions.
- **Dual Interface:** Streamlit web UI for interactive use plus a terminal CLI version for quick, dependency-light testing.
- **Github:** github.com/amitava-code/gemini-chatbot

3D Frontend - Interactive 3D Landing Page (Frontend, CSS 3D, Deployed)

2026

Fully deployed animated landing page built with HTML and CSS 3D transforms/gradients to create depth and motion without any JavaScript framework overhead. Tech: HTML, CSS3, Vercel

- **Deployment:** Shipped and live on Vercel.
- **Live:** 3d-frontend-beta.vercel.app
- **Github:** github.com/amitava-code/3d-frontend

Creative-Frontend – Live : <https://gravity-drop-eight.vercel.app/>

Currently Learning

Actively pursuing online courses in Data Structures & Algorithms, System Design, and advanced Full-Stack Development; certifications in progress — expected completion 2026.