

Saikat Mandal

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EDUCATION

Jadavpur University

Bachelor of Engineering in Electronics and Telecommunication
SGPA – 8.86/10 (linear up to 6th semester)

Kolkata, India
2022 – 2026

Army School, Barrackpore

- AISCCE 2021 – 95.2%
 - AISSE 2019 – 95.8%
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SKILLS

Programming languages: JavaScript, Typescript, C++, Python

Frameworks: ReactJs, NextJs, TS Monorepos, Langchain

Databases: MongoDB, PostgreSQL, QDrantDB

Tools: PrismaORM, Mongoose, GitHub, GitHub Actions, Docker

PROJECTS

PAYME – A PAYMENTS APPLICATION | Typescript, NextJs Monorepo, PostgreSQL & PrismaORM

GITHUB - <https://github.com/SaikatMandal7672/PayMe-banking-app>

- Developed a simple payments app that allows users to send and receive money.
- Utilized Prisma ORM with PostgreSQL for type-safe queries and efficient data access
- Features: Peer-to-Peer transaction, Add Money to in app wallet, Comprehensive dashboard to have overview of transaction and NextAuth for user authentication.
- Created a dummy bank webhook server to process the user transaction.

RAG-BASED CHAT APPLICATION | Python, OpenAI, QDrantDB, LLMs, Langchain

GITHUB - <https://github.com/SaikatMandal7672/PDF-RAG-chat>

- A RAG pipeline built using Python and OpenAI API that ingests and chunks PDFs embeds text, and stores vectors in QdrantDB for fast similarity search.
- Uses OpenAI's LLMs to respond to user queries based on the PDFs.
- Implemented semantic search on the vector embeds based on user's input query to respond with most optimal answers.

BLOGS.DEV – BLOGGING APP | Typescript, NextJS, PostgreSQL, PrismaORM & Clerk

GITHUB - [Blogs-Application](https://github.com/SaikatMandal7672/Blogs-Application) LIVE- blogs-application-mu.vercel.app

- A multi-tenant blog platform with Next.js, enabling isolated organization workspaces and rolebased access using Clerk Organizations for team onboarding.
- Designed a relational schema in PostgreSQL and integrated Prisma for type-safe CRUD and migrations.
- Implemented tenant-aware routing and optional subdomain mapping via Next.js Middleware.
- Authentication, session management, using Clerk's prebuilt components.

BRAINIFY – A SECOND BRAIN | Typescript, ReactJS, MongoDB, Mongoose & ExpressJS

GITHUB - <https://github.com/SaikatMandal7672/Brainify> LIVE- <https://brainify-fe.vercel.app/>

- A personal knowledge management tool to organize and store valuable links from various social media platforms.
- Integrated rich content embeddings (e.g., YouTube videos, Twitter posts) to enhance document context and user experience.
- Secure user authentication (sign-in/sign-up) using Express.js with JWT-based tokens and middleware.