

SUBRATA MONDAL

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MERN Stack Developer

SKILLS

- **Languages:** JavaScript
- **Frontend:** HTML, CSS, React.js, Tailwind CSS
- **Backend:** Node.js, Express.js, MongoDB, Redis
- **Other Tools:** Git, Docker, Nginx, aws, Linux

PROJECTS

TechKart – Full-Stack E-Commerce

([🔗 Live](#) | [💻 Code](#))

MERN Stack | Tailwind CSS | Razorpay | OAuth | Redis | Docker | Nginx | AWS

- Built a **scalable e-commerce platform** with **dashboards**, **product catalog**, **order tracking**, covering the entire flow from **seller's product upload** to **delivery boy's final delivery**, including **returns and refunds**. • Developed **secure REST APIs** with **Express**, **MongoDB**, and **JWT** including **refresh tokens**, and implemented **role-based access** (user, seller, shipment master, delivery boy).
- Integrated **Google OAuth**, **Razorpay** payment gateway, and **Redis** for **token** management and **forgot password** flow.
- Designed **auto-cleanup cron jobs**, **file caching**, **rate limiting**, **PDF invoice generation**, and full **Swagger API documentation**.
- Engineered a dynamic **React frontend** with **Redux Toolkit**, **infinite scroll & pagination**, **optimistic UI** updates, **QR code scanning**, and **Google reCAPTCHA**.
- Leveraged **AI coding assistants** to rapidly generate **shimmer effects**, **UI components**, and **custom hooks** avoiding manual repetition and speeding up frontend development.
- Configured a **production-ready environment** using **Docker Compose** and **Nginx**, enabling **seamless dev to-prod transition** with **conditional container builds** and deployed in **aws**.

PlayTube – Scalable YouTube-style Backend

([📄 Docs](#) | [💻 Code](#))

Node.js | Express.js | MongoDB | Cloudinary | Swagger | JWT | Multer

- Built a **modular, scalable backend** API for a YouTube-style platform with support for **videos**, **tweets (community posts)**, **likes**, **comments**, **subscriptions**, **channels**, and **playlists** — all with full **CRUD** operations.
- Implemented **JWT-based authentication**, session management, and role-based access controls. • Used **Multer** and **Cloudinary** for secure file uploads and optimized media delivery.
- Designed a **RESTful API** structure with well-documented **Swagger UI** for easy client integration. • Followed clean architecture principles for long-term scalability and maintainability.

Ongoing – CodeOrbit (Alternative for meeting platform for the interviewer)

Building a **real-time collaborative IDE** with **Monaco Editor**, **Yjs**, **MediaSoup**, and **Socket.IO**, featuring **group voice**, **video**, **text chat** and an **AI agent** that answers questions using the selected code context.

EDUCATION

- **BCA** (Bachelor of Computer Applications), **Shoolini University** — Aug 2025 – 2028 (Expected).