

Shubham Mukherjee

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Summary

A CSE student at NMIT with strong skills in full-stack development, and DSA . Proficient in React, Node.js, and Java, with experience in scalable microservices and distributed systems. Passionate about AI, problem-solving, and team collaboration.

Education

- Nitte Meenakshi Institute of Technology**, B.E in Computer Science 2022 – Present
CGPA: 8.82
- Delhi Public School**, Class XII, Science and Mathematics 2021 – 2022
Percentage: 91.6%

Skills

- Frontend:** React.js, Next.js, Redux, HTML, CSS, Bootstrap.
- Backend:** Node.js, Express, Linux, gRPC, REST APIs, GraphQL, TCP/IP, PostgreSQL, MongoDB, Redis, ClickHouse, Elasticsearch.
- Cloud & DevOps:** AWS (ECS, S3, IAM), Docker, Kafka.
- Version Control:** Git, GitHub.
- Languages:** Java, JavaScript, Golang.

Work Experience

- Souloxy**, Backend Developer Dec 2024 – Mar 2025
 - Developed scalable **microservices** using **Golang, gRPC, and protocol buffers**, improving modularity and maintainability.
 - Integrated JWT based authentication and performed role-based access control (RBAC).
 - Implemented **gRPC over HTTP/2**, reducing latency by **30-50%** compared to REST-based monolithic architectures.
 - Designed resilient schemas and managed data efficiently using PostgreSQL DB.

Projects

- TaskTrek** – Real-time AI integrated project management platform [[GitHub Link-https://tinyurl.com/mpj8uj2z](https://tinyurl.com/mpj8uj2z)]
Tech: Node.js, React.js, Firebase, Clerk, Gemini AI
 - Built a full-stack platform for individuals and organizations to plan, collaborate, and manage projects with real-time feedback and secure authentication via Clerk.
 - Enabled dynamic working dashboards with live commenting, approvals (Firebase), and shareable URLs for enabling **<100ms sync latency** seamless collaboration.
 - Integrated Gemini AI to auto-generate task flows and assist with idea generation and project planning, reducing manual planning time by **up to 40%** .
- HostHive** – Scalable website hosting platform [[GitHub Link-https://tinyurl.com/5v4ynrhv](https://tinyurl.com/5v4ynrhv)]
Tech: Node.js, Docker, Kafka, ClickHouse, AWS ECS, S3, Redis
 - Built a GitHub-like platform for users to upload and host code projects with automated deployment and real-time feedback.
 - Containerized code with Docker, deployed via AWS ECS (ECR for images, S3 for files) reducing deployment time by **60%**, and used PostgreSQL and Redis for data management and caching achieving a **40% improvement in response times**.
 - Integrated Kafka and ClickHouse for real-time log streaming and high-performance analytics during build and deployment workflows handling **10K+ logs/sec** .
- MyFarm** – Farm product marketplace [[GitHub Link-https://tinyurl.com/576amwwb](https://tinyurl.com/576amwwb)]
Tech: React, Node.js, MongoDB
 - Built a full-stack web platform for farmers to list and sell produce directly to bulk buyers, eliminating middlemen and enabling **up to 25% better pricing** .
 - Developed a secure backend with REST APIs (Node.js, MongoDB) to support **1,000+ listings** and a responsive frontend (React, Tailwind), with Redux for efficient state management reducing data-fetching overhead by **30%** .
 - Enabled direct communication, streamlined transactions, and ensured accessibility for rural users with low digital literacy.
- PolyScale** – Microservices based inventory management system. [[GitHub Link-https://tinyurl.com/r7vzjdcw](https://tinyurl.com/r7vzjdcw)]
Tech: Go, GraphQL, gRPC, Elasticsearch, PostgreSQL, Docker
 - Built modular microservices for account, product, and order management in Golang, each with its own server and database (PostgreSQL/Elasticsearch) delivering **real-time query performance** with **<200ms response time** .
 - Used GraphQL to reduce over-fetching and boost API efficiency by **40%**, and gRPC for low-latency service communication.
 - Containerized all services with Docker for consistent deployment and scalability.

Achievements

- Selected for SheCodes Hackathon by Reva University.
- Secured 2nd Rank in CodeSprint Hackathon by GDSC.
- Achieved 1st Rank in Cryptec Coding Battle (DSA) and 2nd Rank in Cryptec CSS Battle by NMIT.

Certifications

- AWS Academy Cloud Foundation - Credly
- Database Management System Part 1 - Infosys Springboard
- Programming Using Java - Infosys Springboard
- Operating System Fundamentals - NPTEL