

MD SAMIUL ISLAM

Freelance software developer

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WORK EXPERIENCES

Freelance / Independent Software Engineer | Contract Oct 2022 - Present

- Delivered multiple **end-to-end production systems** for clients, handling **backend development**, infrastructure, deployment, and maintenance.
- Built **scalable backend services** supporting **2,000+ active users**, ensuring system stability and performance under real-world load.
- Designed and deployed cloud and self-hosted infrastructures using **Docker**, **Linux servers**, reverse proxies, and **CI/CD pipelines**.
- Collaborated directly with clients to gather requirements, design system architecture, and deliver long-term maintainable solutions.

Technologies / Skills Used : Node.js, Express.js, Docker, Linux, CI/CD, MongoDB, Express, React, Tailwind CSS

EDUCATIONS

Adamas University 2023 - 2027

B.Tech in Computer Science and Engineering (CSE) CGPA : ~8.2/10

- **Relevant Coursework**: Data Structures and Algorithms, Operating Systems, Database Management Systems, Computer Networks, Software Engineering, Machine Learning, Artificial Intelligence, Distributed Systems

Rose Bank Edu Care High School | Kolkata, India Aug 2020 - Aug 2021

ICSE (Class X) CGPA : 86 %

Relevant Subjects: Mathematics, Science, Computer Applications, English

Rose Bank Edu Care High School | Kolkata, India Aug 2022 - Aug 2023

ISC (Class XII) CGPA : 91 %

Relevant Subjects: Physics, Chemistry, Mathematics, Computer Science

PROJECTS

AskData AI | 🌐 Website 🌐 Demo May 2026 - Present

Micro SaaS Project | Under Development

Developed an **AI-powered data analytics platform** enabling users to query databases using **natural language**.

Created features for **concise textual insights**, visual analytics, and custom AI-generated dashboards from

PostgreSQL, **MongoDB**, **CSV**, and **JSON** data sources. Prioritized **fast, context-aware responses** over traditional static dashboards; completed MVP and demo prototype.

Technologies / Tools Used : Ollama, React, Node.js, Express, MongoDB, Clerk, Razorpay, Tailwind CSS

System Visualizer | 🌐 Demo link 🐙 Github Apr 2026 - Present

Personal Project

Built an interactive distributed systems simulator to visualize and analyze network traffic, server behavior, and load balancing strategies in real time. Simulated multiple backend nodes, traffic generators, and load balancer algorithms to compare system performance with and without load balancing using metrics such as CPU usage, request distribution, and response time. Designed to deepen understanding of distributed systems, traffic flow, and infrastructure behavior through real-time visualization and containerized environments.

Technologies / Tools Used : React, Node.js, postgres, Express, Docker

PROJECTS

Hostify Platform as a Service

Present

Solo Developer

- Designed and built a **self-hosted PaaS** enabling solo founders and startups to deploy full-stack applications with built-in analytics. Implemented a **microservices architecture** with **Docker**-ized services, reverse proxying, service isolation, and business performance insights. Deployed entirely on a personal home server without managed cloud services.

Technologies / Tools Used : React, Express, MongoDB, Node.js, Docker, linux, GithubActions

ContestOS |  Website

Present

Micro SaaS Project | Under Development

Building a scalable coding event management platform that enables universities and organizers to create, manage, and monitor coding competitions with minimal setup. Developed features for contest creation, team and problem management, customizable event branding, real-time leaderboards, and live analytics dashboards to track participant activity and contest performance. Designed as a multi-organizer platform inspired by real-world competitive programming infrastructure.

Technologies / Tools Used : React, Node.js, Express, MongoDB, Docker, Linux

Coding Premier League (CPL) Platform |  Github

Feb 2026 - Mar 2026

Solo Developer

Built a fully self-hosted competitive programming platform and code execution infrastructure for a university-level coding competition conducted over a local LAN network. Developed the complete online judging system, real-time submission handling, isolated code execution engine, leaderboard management, and contest administration tools without relying on third-party execution APIs. Architected and managed the entire server infrastructure, enabling multiple participants to compile, run, and evaluate code securely in real time during the event.

Technologies / Tools Used : React, Node.js, Express, MongoDB, Docker, nginx, linux, Socket IO

Neural Network from Scratch |  Github

Node.js

- Developed** a **neural network framework** without external ML libraries, incorporating forward propagation, backpropagation, optimizers, and loss functions. **Explored** federated learning concepts and **enabled** real-time visualization of training metrics. Gained insights into core principles of neural networks, optimization, computational requirements, and complexities.

Technologies / Tools Used : Node.js, Express, React

SKILLS

Programming Languages :	JavaScript, TypeScript, Python, C/C++, SQL, C, C++, Java, python, ollama
Frameworks Libraries :	Node.js, Express.js, React, Next.js, Tailwind CSS, numpy
Databases :	MongoDB, PostgreSQL, MySQL, Redis
Tools Platforms :	Docker, Nginx, Linux (Ubuntu), CI/CD, Cloud Servers, Home Lab, GitHub, Git, Postman, Linux, Jenkins
Soft Skills :	Communication, Leadership, Problem Solving, Solo builder
Languages :	English, Hindi

ACTIVITIES

- Active participant in **Google Developer Student Clubs (GDSC)** technical programs.
- Strong interest in **system design**, scalable architectures, and developer-focused platforms.