Shivam

 shivam.chem21@gmail.com +91-9472238918 in LinkedIn GitHub Portfolio

EDUCATION

Indian Institute of Technology Guwahati, India

Bachelor of Technology in Chemical Science and Technology

Darbhanga Public School

Senior Secondary, CBSE Board

Percentage: 92.6%

EXPERIENCE

May 2024 - July 2024 CloudGrep

Software Development Engineer Intern

- Built full-stack features using Next.js, Node.js, and MongoDB, focusing on efficient API integration, robust error handling, and optimized SSR strategies.
- Implemented secure backend features including JWT authentication, role-based access control, and async data handling with Promises to improve performance and access control.
- Optimized user experience and responsiveness using React Hooks, lazy loading, memoization, and server-side caching.

PROJECTS

Blogify jan 2024 - march 2024

Solo Project github.com/Shivam1817/BlogifyX

- Engineered a full-stack blogging platform (Medium-inspired) enabling authenticated users to write, read, and manage posts; backend built with Cloudflare Workers, Hono framework, and PostgreSQL (via Prisma ORM).
- Integrated Zod for schema validation, Prisma Accelerate for connection pooling and real-time performance optimization, ensuring robust and efficient data handling.
- Deployed the backend leveraging Cloudflare Workers for edge compute performance and scalable execution, delivering a responsive user experience.
- Tech Stacks: React, TypeScript, Zod, Cloudflare Workers, Hono, Prisma, PostgreSQL.

Team Project, Coding Club github.com/Shivam1817/Real Time Chat

- Developed a web application having multiple chat rooms and multiple users can experience real-time messaging.
- Utilized HTML, CSS, and JavaScript for the front-end and Node.js with Express.js for the back-end of Chatify, demonstrating full-stack development skills. Implemented time stamps alongside user-sent messages for clarity.
- Implemented MongoDB for robust database management and socket.io for real-time communication, establishing efficient connections between the server and clients to enhance interactive features and data synchronization.
- Tech Stacks: HTML, CSS, and JavaScript, Nodejs, ExpressJs, MongoDB, Socket.io

File Compressor Oct 2023 - Nov 2023 github.com/Shivam1817/File-Compressor

DSA Project

Chatify

- Developed a text file encoder and decoder using Huffman algorithm, achieving 44.26% data compression ratio.
- Implemented a **Hash table** to accurately track **character frequencies** and construct the Huffman encoding tree.
- Converted data into a compact binary format using tree traversal, encoding via Huffman tree's leaf nodes.
- Optimized data storage by **encoding text files**, ensuring efficient compression through **Huffman tree** construction.

TECHNICAL SKILLS

Programming Languages: C/C++, JavaScript, Typescript, Python*, SQL

Web Technologies: HTML, CSS, ReactJs, NextJs, Tailwind, NodeJs, Express, Hono, Cloudflare Workers, ShadCN, Zod Database Database Management System (DBMS), MongoDB, postgreSQL

Miscellaneous: Object-Oriented Programming (OOPs), Operating System, Computer Networks, Prisma

KEY COURSES TAKEN

- Node.js: Backend Development with Node.js under Student Web's Committee (SWC) IITG
- React.js: Frontend Development with React.js workshop under Student Web's Committee (SWC) IITG
- Computer Science: Introduction to Computing, Computing Laboratory, Computational Chemistry

Positions of Responsibility

· Core Team, Media, Rights and Responsibilities Club, IIT Guwahati

May 2023 - May 2024

Nov 2021 - Present

Jun 2023 - Jul 2023

CGPA: 7.13/10

2020

Managed social media accounts, successfully increasing follower count by nearly 50% to enhance the club's presence.

· Core Team, Alcheringa, IIT Guwahati

June 2022 - March 2023

Collaborated with 30 members and 80 executives, ensuring the security of a festival with over 150,000 attendees.

ACHIEVEMENTS AND EXTRACURRICULAR

• Competitive Programming: Solved 1000+ problems on different coding platforms.

current

• Spardha, Inter Hostel Competitions: Won Bronze medal in Water Polo, represented Barak Hostel.

2023

• CRM Executive, Alcheringa, IIT Guwahati

June 2022 - March 2023

• **JEE Advanced:** Ranked in the **Top 8%** among 150,000 students.

2021