Shivam

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EDUCATION

Indian Institute of Technology Guwahati, India

Bachelor of Technology in Chemical Science and Technology

Darbhanga Public School

2020 Senior Secondary, CBSE Board Percentage: 92.6%

EXPERIENCE

CloudGrep May 2024 - July 2024

Software Development Engineer Intern

- Designed and optimized full-stack features for a Firecracker VM orchestration platform using Next.js, TypeScript, Go, and MongoDB, improving performance by 35% through efficient SSR and SSG strategies.
- Integrated RESTful API endpoints with platform-engineering wrapper functions, streamlining Firecracker VM lifecycle management, reducing deployment time by 40%.
- Developed real-time functionality by orchestrating WebSocket connections, enabling seamless microservice communication and live updates, decreasing latency by 50%.

Projets

Chatify Team Project, Coding Club Jun 2023 - Jul 2023

Nov 2021 - Present

CGPA: 7.13/10

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

Banking App Apr 2024 - Jun 2024

Team Project

github.com/Shivam1817/Banking-App

- Built a secure financial platform using Next.js, enabling real-time transaction tracking system, integrating multiple banks via Plaid, and facilitating seamless fund transfers between the accounts through Dwolla's payment gateway.
- Implemented a responsive, mobile-first design and ensuring a consistent user experience across all devices while effectively displaying detailed financial summaries and transaction histories for users on the platform seamlessly.
- Designed and implemented ultra-secure SSR authentication along with efficient data management, ensuring real-time updates and secure transactions across multiple bank accounts, providing a robust and reliable user experience.
- Tech Stacks: NextJs, Typescript, Appwrite, Tailwind, ShadCN, Zod, Plaid

File Compressor Oct 2023 - Nov 2023

DSA Project

github.com/Shivam1817/File-Compressor

- 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, ShadCN, Zod

Database Database Management System (DBMS), MongoDB, postgreSQL

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

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

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.

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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