

Shivam

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LinkedIn

GitHub

Portfolio

EDUCATION

Indian Institute of Technology Guwahati, India

Bachelor of Technology in Chemical Science and Technology

Nov 2021 - July 2025

CGPA: 7.09/10

Darbhangha Public School

Senior Secondary, CBSE Board

2020

Percentage: 92.6%

EXPERIENCE

Aiverbalyze Technologies Private Limited

July 2025 - August 2025

Full Stack Engineer Intern

- Engineered a secure, full-stack document collaboration platform ("Doc Viewer") using **React, TypeScript, and Python (FastAPI)**, implementing features like a multi-format file previewer supporting over **150 extensions**, an interactive toolbar, and in-browser **PDF manipulation**.
- Developed an advanced collaboration suite, translating **Figma** designs into pixel-perfect UI for features like **real-time commenting**, an **annotation engine**, **digital signatures**, and a granular **Role-Based Access Control (RBAC)** system.
- Built and containerized the **Python** backend using **Docker** for file processing and API services, and managed the full code integration lifecycle from **pull request (PR)** reviews, **merging approved code to the main branch**, and verifying **CI/CD** pipeline deployments.

CloudGrep

May 2024 - July 2024

Software Development Engineer Intern

- Developed full-stack features using **Next.js, Node.js, and MongoDB**, with a focus on efficient **API integration** and optimized **Server-Side Rendering (SSR)**.
- Implemented secure backend services with **JWT authentication** and improved frontend performance using **React Hooks, lazy loading, 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.

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, FastAPI, 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), Postman, Prisma, Docker, MonoRepos, Turborepo

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. 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