Samarth Srivastava

samarthsrivastava897@gmail.com | github.com/samarthSrivastavaa | linkedin.com/in/samarth-srivastava-426051283

SKILLS

Languages: C, C++, Java, Python, JavaScript, TypeScript, SQL, Solidity, Rust

Technologies & Tools: ReactJS, NextJS, Node.js, Express.js, MongoDB, PostgreSQL, VS Code, Git, GitHub, Solana SDK, HTML, Tailwind, Bootstrap, FastAPI, Django

Domains & Expertise: Web Development, Blockchain Development (Solana, Ethereum), App Development, Data Structures & Algorithms

PROJECT WORK

Stegano: Secure Image-based Encryption & Decryption Platform
– Built a steganography-based platform to hide and reveal encrypted text messages inside images.
– Implemented AES-GCM encryption with password-derived keys (PBKDF2) for robust security.
– Improved reliability with bit-level encoding/decoding and on-the-fly integrity checks.
– **Technologies:** JavaScript, React, Node.js, Express, HTML5 Canvas API, Web Crypto API

FutureMe Web3: Time-locked Letter App
– Built a decentralized platform to write letters to future selves, unlocking at specific timestamps.
– Integrated smart contract with Chainlink & user wallet authentication.
– Designed a secure system with Gas-efficient storage and retrieval of letters.
– **Technologies:** Solidity, Foundry, React, Vite, TailwindCSS, Wagmi, RainbowKit, Viem, Ethers.js

ChatBox: MERN Chat App
– Developed a full-stack MERN chat app with JWT authentication, profile image uploads (Cloudinary).
– Implemented real-time messaging via WebSockets, ensuring seamless communication.
– Added middleware for authentication, error handling, and protected routes.
– **Technologies:** ReactJS, Node.js, Express.js, MongoDB, Socket.IO, Cloudinary, DaisyUI, TailwindCSS

EcoSync: Mining Sustainability Dashboard
– Developed a frontend-only dashboard to analyze, monitor, and act upon real-time changes in mining operations.
– Integrated modules for Life Cycle Assessment (LCA) and circularity tracking to ensure sustainable practices.
– Designed interactive visualizations for environmental data trends, compliance metrics, and optimization insights.
– Implemented multi-feature workflows for anomaly detection, impact reporting, and corrective action planning.
– **Technologies:** Next.js, TailwindCSS, Chart.js

EDUCATION

Indian Institute of Information Technology - Sonipat   *Aug 2024 – Aug 2028 (Expected)*
– B.Tech in CSE (Data Science & Analytics), CGPA: 9.1/10

CBSE (Class XII)   *2023-24*
– Aggregate: 93.4%

CBSE (Class X)   *2021-22*
– Aggregate: 95.6%

RELEVANT COURSEWORK

Courses Taken
– Data Structures & Algorithms (C++ / Java)
– Object-Oriented Programming (Java / C++)
– Computer Organization & Architecture
– Discrete Mathematics
– Database Management Systems
– Design and Analysis of Algorithms