SAHIL GUPTA
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Summary

B.Tech Computer Science student with strong problem-solving skills, hands-on experience in full-stack development, and a passion for building scalable and efficient applications. Solved DSA problems on LeetCode and developed real-world projects.

Skills

- **Programming Languages**: C++, JavaScript (ES6+), TypeScript, HTML5, CSS3
- **Frameworks & Libraries**: React.js, Next.js, Redux, Redux-Saga, Tailwind CSS, Emotion, Node.js, Express.js
- **Build & Bundling Tools**: Webpack, ParcelJS, Rollup, Lerna
- **Testing & Automation**: Mocha, Jasmine, Karma, Jest, Unit Testing, Integration Testing, Test Automation
- **Tools & Technologies**: Git, WebAssembly (WASM), MongoDB , MySQL, Qt (GUI)
- **Concepts:** Data Structures & Algorithms (DSA), Web Development, RESTful APIs, Performance Optimization
- **Database Technologies**: MongoDB , MySQL

Achievements

- LeetCode: Solved problems including Arrays, Graphs, Linked Lists, DP, Greedy
- LeetCode Contest Rating: ~1800+ (Top 10% globally)
- Finalist at Next Gen Minds by JAGSoM - Proposed AI-based Human-Centric Innovation

Projects

FileCompressor – Browser-Based File Compression Tool **Source Code** **Demo**

- Developed a full-stack file compression tool using C++, React.js, and WebAssembly, enabling users to compress and download files directly from the browser.
- Implemented Huffman Coding algorithm in C++ for efficient lossless data compression.
- Compiled C++ code to WebAssembly using Emscripten to execute native logic in the browser environment.
- Designed and developed a responsive frontend using React.js and real-time feedback on file operations.
- Supported a wide range of file types including .txt, .pdf, and binary files for compression and decompression workflows.
- Ensured modular and extensible architecture to accommodate future enhancements such as real compression metrics, analytics, or cloud integration

Get Me A Chai – Crowdfunding Platform for Creators **Source Code** **Demo**

- Developed a full-stack crowdfunding platform that allows creators to receive financial support from their followers, similar to Patreon, with a focus on Indian creators.
- Implemented secure payment gateway integration using Razorpay API for real-time transactions and QR-based payments.
- Built an interactive frontend using Next.js, React, and Tailwind CSS, ensuring responsive UI and smooth user experience.
- Designed a robust backend with Node.js and MongoDB, handling user authentication, creator profiles, and transaction management.
- Deployed the application using Vercel for frontend and MongoDB Atlas/Render for backend, enabling seamless live access.
- Implemented modern UX features like cover images, donation popups, and profile-based creator dashboards.

PassOp - Password Manager **Source Code** **Demo**

- Developed a secure password manager web application using React.js for frontend and Node.js/Express.js with MongoDB for backend.
- Implemented user authentication and password encryption to ensure secure storage and retrieval of credentials.
- Designed and integrated a RESTful API to handle password creation, retrieval, and deletion efficiently
- Utilized MongoDB Atlas for scalable cloud-based database management.
- Applied bcrypt/crypto hashing algorithms to protect sensitive data and prevent unauthorized access.
- Built a responsive and user-friendly UI with React, featuring password visibility toggle, search, and copy-to-clipboard functionalities.

Education

Vivekananda Global University,Jaipur, India   2026

- B.Tech in Computer Science and Engineering, CGPA: 8.5/10

Step By Step Sr. Sec. School, Alwar, India   2022

- CBSE (Class XII), Aggregate: 83.4 %