SOHAMDEEP MONDAL

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PERSONAL SUMMARY

Tech-driven Civil Engineering student at Jadavpur University passionate about building robust software. Combines full-stack development experience with a strong foundation in data structures and algorithms, honed through competitive programming. Eager to apply problem-solving skills to create impactful technical solutions.

TECHNICAL SKILLS

- **Languages:** C++, Python, JavaScript
- **Web Development:** Node.js, Express.js, React.js, REST APIs, Bootstrap
- **Databases:** PostgreSQL, MySQL, SQL
- **Tools:** VS Code, Postman, Jupyter Notebook, GitHub
- **Core Concepts:** DSA, OOP, DBMS

PROJECTS

File Compressor (https://github.com/sohamdeep72/Compressor-decompressor)

- Developed a C++ Huffman-based compressor/decompressor with custom .sohamdeep binary format.
- Optimized performance using heap-based tree construction, bit-level packing, and binary I/O.
- Delivered a robust CLI with error handling, format validation, and support for text/binary files.

URL Shortening Web App (https://github.com/sohamdeep72/url-shortener)

- Built a full-stack URL shortener featuring a RESTful API with React frontend and Nodejs and Expressjs backend.
- Implemented secure user authentication with JWT and bcrypt for link history and click analytics.

ACHIEVEMENTS

- **Codeforces:** Rated 1417(specialist)
- **Hackathons:** Finalist, Grab Hackathon 2025
- **Exams:** AIR 13k, JEE Advanced 2022 and 98%ile, JEE Main 2022.

EXPERIENCE AND LEADERSHIP

Operations Head, E-Cell, Jadavpur University   May 2023 - Present

- Led logistical operations for multiple events, using data analysis to organize events and boost participation.

Finance Convenor, U-Turn '23-24   Jan 2024

- Managed a budget of 2.62 lakhs rupees, coordinating with multiple teams to ensure resource allocation and fiscal compliance.

EDUCATION

- **Bachelor of Engineering**, Civil Engineering, Jadavpur University(2026)
- **Higher Secondary (WBCHSE)(2022)** and **Madhyamik Examination (WBBSE)(2020)**, Kolaghat Thermal Power Plant High School

CERTIFICATIONS

- Azure AI Fundamentals (AI-900) by Microsoft, Python course from Google, Full Stack Web Development Course from Udemy