
Tuhin Mandal

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GitHub | LinkedIn | LeetCode | Portfolio

Professional Summary

Motivated backend developer with a B.Tech in CSE, proficient in JavaScript and Node.js. Built a production-grade API using Express and PostgreSQL with robust validation (Zod) and modular architecture. Solved 140+ LeetCode problems in 65 days, demonstrating strong DSA proficiency.

Technical Skills

- **Languages:** C++, JavaScript, Python
- **Backend:** Node.js, Express.js
- **Database:** PostgreSQL
- **Tools:** Git, Linux, Docker, Postman

Projects

KPA Forms API

2025

A robust, secure RESTful API for managing form submissions built with Express, Node.js & PostgreSQL.

- Designed two REST endpoints (POST & GET) with JSON schema validation (Zod) and parameterized SQL for security.
- Applied environment-based configs via `dotenv`, modular routes/controllers, and centralized error handling.
- Demonstrated full flow in Postman and direct `psql` queries; Dockerized PostgreSQL for easy setup.
- GitHub: <https://github.com/MandalTuhin/KPA-api>

Education

B.Tech in Computer Science & Engineering

Chaibasa Engineering College, Jharkhand
CGPA: 8.11

2020–2024

LeetCode & DSA

- Solved **140+** problems in **65 days** on LeetCode, demonstrating strong problem-solving skills in C++.
- Proficient with key DSA patterns including Two-Pointers, Sliding Window, HashMaps, Trees (DFS), and Basic DP.
- Strong grasp of time & space complexity analysis for algorithm optimization (e.g., $O(n)$, $O(n \log n)$).