

DEEPANSHU PAL

Meerut, Uttar Pradesh

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Education

International Institute of Information Technology, Bhubaneswar

Bachelor of Technology in Information Technology

Nov. 2022 – Present

Bhubaneswar, Odisha

Vardhman Academy, Meerut

Central Board of Secondary Education

Aug. 2019 – Mar. 2021

Meerut, Uttar Pradesh

Technical Skills

Languages: C++(primary), C, JavaScript(ES6+), HTML, CSS, SQL

Frameworks/Libraries: React.js, Node.js, Express.js

Databases: PostgreSQL, MongoDB, MySQL

Developer Tools: Git, GitHub, VS Code, Postman, Docker

Related Coursework: Data Structures and Algorithms, Database Management, Operating Systems, Object-Oriented Programming, and Computer Networks

Coding Profile: Leetcode(rating-1607) - [Link here](#), TUF - [Link here](#)

Projects

1. City Help - Distributed Citizen Reporting Platform — *(Node.js, Express, MongoDB - Ongoing)*

CityHelp is a smart civic issue management platform that enables citizens to report local problems and track their resolution in real time. It improves transparency and efficiency by connecting citizens, field workers, and government authorities through a role-based digital system.

- Engineered a distributed backend system for reporting and tracking city infrastructure issues.
- Built RESTful APIs with JWT authentication, role-based access, and encrypted data storage.
- Implemented a modular architecture and centralized error handling for the platform, improving code maintainability and scalability.
- GitHub repository — [Link here](#)

2. Project Management Platform — Scalable API Backend — *Node.js, Express, MongoDB, Mongoose*

A Project Management Platform that helps teams plan, track, and manage projects with tasks, roles, and deadlines in one place. It improves collaboration and productivity through real-time updates and role-based access control.

- Designed a scalable backend supporting multi-role users, projects, and task management.
- Achieved **350+ requests/sec** with **2.3 ms average latency** under 50 concurrent users (Autocannon benchmark).
- Implemented JWT, bcrypt, refresh tokens, and Dockerized deployment with MVC architecture.
- GitHub repository – [Link here](#)

3. URL Shortener — *React.js, tailwindcss, Node.js, Express, PostgreSQL, Drizzle ORM, Docker* [Link here](#) *A URL Shortener that converts long links into short, shareable URLs with fast redirection. It includes link tracking and management features for better usability and analytics.*

- Developed a production-grade URL shortening service using PostgreSQL and Drizzle ORM.
- Optimized backend for **approximately 230 requests per second throughput** with **an average latency of 265 ms** using async I/O and caching
- Secured APIs and containerized deployment using Docker and environment configurations.
- GitHub repository — [Link here](#)

Achievements

- Ranked 4563 out of 30390 participants in Leetcode's Weekly Contest 469
- Ranked 6783 out of 31127 participants in Leetcode's Biweekly Contest 167
- Solved 300+ problems on LeetCode, GFG, Striver-Sheet (self-practice achievement).
- participation in the ISRO H2S program and FlipKart Grid 7.0

Positions of Responsibility

- Student Volunteer at DevFest 2023, conducted by Google Developer Groups.
- Assisted peers in learning **backend development** and debugging Node.js/Express projects.