DEEPANSHU PAL

Meerut, Uttar Pradesh

✉ pal30072002@gmail.com — 📞 +91 8126093582

in www.linkedin.com/in/deepu-pal — ⭘ github.com/dps3007

Professional Summary

Software Engineer with strong foundations in systems programming, distributed backend architecture, and performance optimization. Proficient in C++, Node.js, and databases, with experience designing fault-tolerant APIs, secure web services, and scalable infrastructures. Focused on building efficient, production-grade systems for real-world large-scale applications.

Education

International Institute of Information Technology, Bhubaneswar   Nov. 2022 – Present
Bachelor of Technology in Information Technology (Expected 2026)   Bhubaneswar, Odisha

Vardhman Academy, Meerut   Aug. 2019 – Mar. 2021
Central Board of Secondary Education   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 Structure and Algorithm, Database Management, Operating Systems, OOPs, CN
Coding Profile: Leetcode(rating-1574) - **Link here**, TUF - **Link here**

Projects

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

- 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.
- Applied modular architecture and centralized error handling for scalability and maintainability.
- GitHub repository — **Link here**

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

- 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**

- Developed a production-grade URL shortening service using PostgreSQL + Drizzle ORM.
- Optimized backend for **230+ requests/sec throughput** with **265 ms average latency** with 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 ISRO H2S program , 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.