

# Pallav Sarkar

## Full Stack Developer

📞 +91-8598980710 📩 [pallav2005sarkar@gmail.com](mailto:pallav2005sarkar@gmail.com) 💬 [linkedin.com/in/shakrashamim](https://linkedin.com/in/shakrashamim) 🌐 [github.com/PallavSarkar2005](https://github.com/PallavSarkar2005)

### Summary

Full Stack Developer with a strong foundation in JavaScript, React, Node.js, and modern web technologies. Experienced in designing, building, and optimizing scalable, high-performance web applications. Driven to contribute to impactful products and collaborate with cross-functional teams in fast-paced, engineering-driven environments.

### Skills

**Programming:** Java, Python, JavaScript (ES6+)

**Frameworks & Libraries:** React.js, Express.js, Node.js

**Databases & Tools:** MongoDB, Mongoose ODM, REST APIs

**Version Control & Workflow:** Git, GitHub

### Projects

#### E-Commerce Website | MERN Stack

October 2025 – December 2025

- Led full-stack development of a scalable MERN-based e-commerce application, supporting **1,000+** users with secure authentication and authorization workflows.
- Designed a resilient backend architecture using **Express.js**, implementing security best practices that reduced API abuse risk by **60%**.
- Optimized frontend and backend performance, achieving a **40% reduction** in page load time through efficient asset optimization and API payload design.
- Built an administrative interface enabling real-time product, order, and user management, cutting manual operational workflows by **50%**.

#### URL Shortener | MERN Stack

November 2025 – December 2025

- Designed and developed a scalable URL shortening service using **React, Node.js, Express, and MongoDB**, supporting the creation and redirection of **10,000+ short URLs**.
- Implemented a collision-resistant short-code generation system with indexed database lookups, achieving an average redirection latency of **under 120 ms**.
- Built analytics pipelines to track click counts, timestamps, and referrers for each short URL, enabling data-driven insights into user engagement patterns.
- Secured backend APIs with robust input validation and rate limiting, reducing abuse attempts by **50%** during load testing.

### Awards & Certifications

- **Naukri Campus Young Turks – 2024 (Merit Certificate):** Achieved an All India Rank of **16,613** among **5.13 lakh+** participants in a national-level skill assessment.
- **Road Safety Hackathon – NHAI (Top 5%):** Contributed to ideation and technical solution design as part of a team, achieving a **top 5% national ranking** in a government-organized road safety hackathon.
- **HackOdisha – Team Lead:** Led problem formulation, technical design, and team coordination, earning strong evaluation feedback in a competitive hackathon environment.
- **Web Development Cohort 3 – 100xDevs (Instructor: Harkirat Singh):** Completed a rigorous, project-based program covering JavaScript, React, Node.js, RESTful APIs, system fundamentals, and real-world application development.

### Education

#### B.Tech. Computer Science

*NIST University, Berhampur*

Expected Graduation: 2028

CGPA: 8.43 / 10