

# Nilesh Rana

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 [nileshrana.me](https://nileshrana.me)  [LeetCode](#)

## Education

Lovely Professional University, Jalandhar  
*B.Tech in Computer Science and Engineering*

Aug 2023 – Present  
CGPA: 8/10

## Experience

### Gharpayy

*Full Stack Developer Intern*

Nov 2025 – Present  
Bengaluru (Remote)

- Developing and optimizing frontend modules using React and Next.js.
- Implementing REST APIs, database operations, and contributing to core product logic.
- Enhancing overall app performance, usability, and smooth user experience.

## Projects

[Optisense AI](#) | *Next.js, Node.js, Typescript, Prisma ORM, Clerk, Gemini API*

 [GitHub](#)

- Developed an intelligent conversational system supporting over **50** specialized personal assistants, handling multi-turn dialogue retention and delivering personalized, markdown-formatted responses.
- Implemented **15+** RESTful API routes for assistant management and chat processing, integrated Prisma ORM to manage normalized data models supporting concurrent user sessions and token-based usage tracking.
- Implemented a secure, automated payment infrastructure with webhook verification, managing tiered subscriptions and tracking real-time token usage and credit allocation (**100,000** tokens per upgrade).
- Delivered a responsive, production-ready UI with optimistic updates and mobile-friendly chat behavior to ensure smooth user experience.

[Syntaxist - Online Compiler](#) | *Next.js, Express.js, Docker, WebSocket, Gemini API*

 [GitHub](#)

- Built a full-stack online compiler supporting **10+** languages (Python, Java, C++, Go, Rust, etc.) with WebSocket-based real-time code execution and interactive terminal using xterm.js.
- Implemented Docker containerization with isolated sandboxes for secure code execution with resource limits (256MB memory, 0.5 CPU), preventing malicious operations.
- Integrated Google Gemini API for automated Big O complexity analysis and intelligent code optimization suggestions with instant performance insights.
- Developed production-ready application with Monaco Editor, achieving real-time bidirectional communication and deployed on custom domain with **100+** users.

[BitLinks - URL Shortner](#) | *Next.js, Tailwind CSS, MongoDB*

 [GitHub](#)

- Built a URL shortener using Next.js with RESTful APIs, custom slug generation, database-backed link storage, and dynamic route-based redirection for fast and reliable URL handling.
- Implemented duplicate URL validation, error handling with proper HTTP status codes (201/409/500), and MongoDB connection pooling for database optimization.
- Designed responsive UI with Tailwind CSS, featuring real-time URL validation, mobile-first design, and SSR for improved SEO performance.

## Technical Skills

**Languages:** HTML, CSS, JavaScript, TypeScript, Java, SQL

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

**Databases:** MongoDB, MySQL

**Developer Tools:** Git, Github, Postman, Docker, Compass, MySQL Workbench, VS Code

**Core CS Topics:** Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Computer Networks, Database Systems (DBMS), System Design

## Achievements

- Semifinalist, Tata Imagination Challenge 2025 - selected among **7054** shortlisted candidates across India.
- Scored **75%** in the NPTEL Cloud Computing course, a proctored national-level exam.
- Achieved a LeetCode Contest Rating of **1660** with global rank **1836** in Weekly Contest 472, demonstrating strong algorithmic knowledge and coding proficiency.
- Solved **500+** coding problems across LeetCode, CodeChef and Codeforces, showcasing strong problem-solving skills.
- Secured a position in the Dean's List, representing the **top 10%** of the college for academic excellence.
- Member of GitHub Club, LPU.