

Prabhat Kumar

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🔗 Prabhat2912

Summary

Full-stack developer experienced in MERN stack with strong expertise in C++ and object-oriented programming. Proficient in frontend and backend technologies including Next.js, Tailwind CSS, and Node.js. Committed to continuous learning through hands-on projects and active involvement in tech communities.

Education

Galgotias University

B.tech in Computer Science and Engineering (AI&ML)

June 2022 – May 2026

- CGPA: 8.18

Technical Skills

Languages: C++, C, JavaScript, TypeScript

Frontend: React, Next.js, Tailwind CSS, HTML5, CSS3

Backend & Databases: Node.js, Express, MongoDB, SQL, PostgreSQL

Tools & Platforms: Git, GitHub, Vercel

Experience

Frontend Blockchain Intern

EliteKods

Remote

March 2024 – May 2024

- Developed 30+ reusable UI components using React and Tailwind CSS across multiple features.
- Contributed to 10+ production projects by building core frontend features and layouts.
- Integrated 10+ Web3 APIs for wallet connection, smart contract data, and blockchain interactions.
- Collaborated with a 5-member team to debug and resolve 20+ UI/UX issues, improving frontend quality.

Projects

Mini Database Engine — C++17 Systems Programming Project [🔗](#)

August 2025

- Built ACID-compliant database engine with LRU buffer pool, B-tree indexing for $O(\log n)$ lookups, Write-Ahead Logging for crash recovery, and full transaction support.
- Developed SQL parser and executor using recursive descent parsing for DDL/DML operations, supporting CREATE TABLE, INSERT, SELECT with multiple data types (INTEGER, VARCHAR, DOUBLE, BOOLEAN).
- Resolved critical multi-table storage bug by implementing isolated file architecture per table, eliminating data corruption and ensuring integrity across concurrent operations.
- Delivered comprehensive solution with fully documented codebase, multi-table test suite, and cross-platform CMake build system for Windows/Linux/macOS.

Full Stack Quiz Application [🔗](#)

October 2025 – November 2025

- Built a full-stack quiz app with user and admin dashboards for quiz management, leaderboard, and rankings.
- Designed and serviced user-facing functionalities such as real-time rankings, leaderboard, and quiz progress tracking.
- Managed authentication with JWT and stored user and quiz data with Node.js, Express, and MongoDB.
- Developed a responsive frontend using React and Tailwind CSS, ensuring smooth performance across different devices.
- Tools: React, Node.js, Express, MongoDB, JWT, Tailwind CSS

Achievements

- Ranked in the top 30 teams across Delhi NCR in the NASA Space Apps Challenge; participated in 4+ hackathons, gaining experience in AI/ML and cloud technologies.
- Solved 400+ DSA problems in C++, active in GDG events and tech meetups; max LeetCode contest rating 1780 and GeeksforGeeks rating 1628.
- Maintains a Codeforces rating of 928, actively competing and sharpening algorithmic skills.