

Rohit Kumar

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EDUCATION

PDPM IIIT Design and Manufacturing

Jabalpur, MP

B.Tech in Electronics and Communication Engineering – CGPA: 7.7/10

2024 – 2028

- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Digital Systems
- Qualified **JEE Advanced** — among top 1.5% of 1.4 million JEE Main candidates nationwide

TECHNICAL SKILLS

Languages: C++, TypeScript, JavaScript, SQL, HTML/CSS

Frameworks & Libraries: React 18, Node.js, Express.js, Drizzle ORM, Tailwind CSS, Chart.js, Vite

Databases: PostgreSQL, Neon Serverless PostgreSQL

APIs & Platforms: Razorpay, Groq LLM API, Judge0, Codeforces Public API, LeetCode GraphQL API

Developer Tools: Git, GitHub, Linux, Vercel, Render

Concepts: Data Structures & Algorithms, Object-Oriented Programming, RESTful API Design, JWT Authentication & RBAC, Webhook Integration & HMAC Verification, LLM API Integration, Chrome Extension Development (Manifest V3), Monorepo Architecture, Database Indexing & Query Optimization, Rate Limiting

PROJECTS

Creator Dashboard | *React 18, Node.js, Express.js, PostgreSQL, JWT, Razorpay, Tailwind CSS* [Live](#) | [GitHub](#)

- Built and deployed a full working platform where creators sell courses and tutorials online with secure one-time payments via **Razorpay**, covering the entire journey from sign-up to checkout to instant content access
- Engineered a reliability layer that automatically double-checks payment status every 2 seconds (up to 12 times) so a purchase is never left unconfirmed, with built-in safeguards guaranteeing **no customer is ever charged twice** for the same content
- Built out the platform's entire backend — **19 features** spanning accounts, content, subscriptions, and payments — including a smart access system so creators can freely preview their own paid content while everyone else instantly sees a preview-and-buy option instead of a dead end

LeetCode Analyzer | *TypeScript, React, Express.js, PostgreSQL, Drizzle ORM, Groq LLM, Judge0* [Live](#) | [GitHub](#)

- Built and deployed a free tool that instantly reviews any LeetCode solution — no sign-up required — checking whether the code is actually correct, how fast and memory-efficient it is, and what algorithmic pattern it uses, pre-loaded with data for nearly **3,000 problems**
- Rather than relying on AI to guess whether code works, built a system that actually compiles and runs each submission against real test cases in **Python, C++, and Java** — so correctness results are verified, not assumed
- Added a two-step hint system that guides users toward the right approach step by step instead of giving away the answer — like a built-in coding tutor — powered by AI that also explains code quality and efficiency in plain language

CF Enhancer | *JavaScript, Vite, Chart.js, Chrome Extension Manifest V3, Codeforces REST API* [GitHub](#)

- Built a free Chrome extension that turns any Codeforces profile into a personal analytics dashboard, combining **8 different insights** — rating history, a full year of activity, recent contests, recent submissions, and more — into one clean view instead of scattered pages
- Surfaces a user's most recent activity at a glance — last **15 contests** with rank and rating change, and last **15 submissions** with pass/fail results — so competitive programmers instantly see where they stand
- Automatically flags the topics a user is weakest in based on their real solving history and refreshes instantly while browsing, working out of the box with no login or setup required

COMPETITIVE PROGRAMMING

LeetCode — 575 problems solved | Contest Rating **1721** | Ranked **1,206 / 37,970** (Top 3.2%) in Weekly Contest 508

Codeforces — 244 problems solved | Rating **1256** (Pupil) **CodeChef** — 442 problems solved | Rating **1444** (2★)

Aggregate: 1,250+ Data Structures and Algorithms problems solved across platforms with strong coverage in Dynamic Programming, Graphs, Trees, and Binary Search