

KUNAL PATIL

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Education

Indian Institute of Information Technology, Gwalior

2020 – 2025

Integrated Bachelors and Masters in Information Technology, CGPA: 7.02

Gwalior, India

Projects

Tvarin | Chrome Extension, JavaScript, Supabase, PostgreSQL, Groq

🔗 | July 2026 – Present

- Architected and shipped a full-stack **Manifest V3 Chrome extension** that autofills job applications, with a Supabase backend and hosted analytics dashboard.
- Built conflict-resolving two-way sync between the extension and **PostgreSQL**, using timestamp reconciliation and tombstone tracking to preserve edits and deletions across clients.
- Designed an extensible ATS router that identifies job sites by hostname and DOM structure, dispatching to platform-specific fill engines with a heuristic fallback for unfamiliar forms.
- Built a secure AI answer-generation layer using **Groq**, protected by Google OAuth, JWT validation, and atomic per-user monthly quotas.
- Enforced per-user data isolation with **Row-Level Security (RLS)**, kept privileged keys server-side, and avoided persistent storage of résumé data.

Kagadwala | React, TypeScript, Supabase, PostgreSQL, Cashfree

🔗 | Mar 2026 – Present

- Built and launched a production web platform enabling users to apply for document services online with secure uploads, transparent pricing, and real-time order tracking.
- Integrated **Cashfree Payment Gateway** with webhook-based payment confirmation, signature verification, and idempotent order state handling for reliable transaction processing.
- Designed scalable backend systems using **PostgreSQL** and **Row-Level Security (RLS)** to securely manage customers, operators, and admin roles.
- Developed responsive frontend workflows for onboarding, checkout, dashboards, and support operations using **React** and **TypeScript**.
- Diagnosed and resolved live production issues across payments, authentication, and deployments, improving platform reliability and user experience.
- Architected reusable service modules to support onboarding new government services and future expansion across multiple Indian states.

Quiz Battle | React, Express, NodeJS, Pusher, MongoDB

🔗 | June 2024 - July 2024

- Developed a real-time multiplayer MCQ battle game using **Express and React with Pusher for WebSockets integration**, enabling users to engage in head-to-head quiz battles.
- Designed and implemented a scalable **MongoDB database** to manage user data, game sessions, and scores, supporting over **thousand registered user** and handling up to **hundred concurrent players** during peak times.
- Crafted a **modular game engine** with robust state management and real-time event handling, ensuring smooth gameplay even with high user activity.
- Engineered a dynamic **game lobby system** that facilitates seamless session management, allowing users to create, join, and engage in games in real-time with efficient handling of game invitations and participant interactions.
- Integrated a real-time **question delivery system** and a 10-minute gameplay timer, ensuring engaging and fast-paced quiz battles with immediate feedback on user actions.

Technical Skills

Languages: C/C++, JavaScript, Python

Core Fundamentals: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Computer Networking, Database Management System

Technologies & Databases: ReactJS, NodeJS, ExpressJS, Git, PostgreSQL, MongoDB, MySQL, REST APIs, Backend, Frontend

Achievements

- * Achieved the **Specialist** title on **Codeforces** with a maximum rating of **1518**.
- * Achieved a ranking in the **top 4%** of participants in the **CodeChef Starter 25** contest.
- * Secured **1563th position (Top 5%)** in **Leetcode Weekly Contest 398** among **27,796 candidates**.
- * Solved **800+ challenges** on LeetCode, GeeksforGeeks, and Codeforces, demonstrating strong problem-solving skills.