

Dev Mittal

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EDUCATION

- **Indian Institute of Technology, Palakkad** Palakkad, Kerala
BTech in Civil Engineering; CGPA: 8.55 Aug 2023 - July 2027(Tentative)
- **Guru Tegh Bahadur Public School** Model Town, New Delhi
Central Board of Secondary Education; XII Percentage: 95.8 2022

EXPERIENCE

- **IIT Palakkad** GitHub
Administrative Intern Jan 2026 - Present
 - Developed and deployed a production-grade Campus Security & Gate Pass Management System using **Next.js, TypeScript, Supabase (PostgreSQL + Auth), and Tailwind CSS**.
 - Engineered secure **RBAC (6 roles)** with Supabase Row-Level Security, server-side authentication, and domain-restricted Google OAuth.
 - Designed real-time QR verification and automated role assignment using PostgreSQL triggers, digitizing and streamlining campus security workflows.

PROJECTS

- **AutoJudge: - Next.js, React, FastAPI, Supabase, Docker, Kubernetes (Minikube)** Source code
 - Architected a **cloud-native coding evaluation platform** to automate large-scale programming lab assessments.
 - Developed a **Next.js + React** frontend with server-side rendering for seamless code submission and result tracking.
 - Built a **FastAPI-based backend** integrated with **Supabase (PostgreSQL + Auth)** for secure authentication and persistent storage.
 - Designed **Dockerized execution environments** to safely run untrusted student code with strict isolation.
 - Orchestrated execution using **Kubernetes Jobs on Minikube**, enabling scalable and fault-tolerant handling of concurrent submissions.
 - Automated compilation, execution, and grading via test cases, **eliminating manual evaluation by TAs**.
- **FOOD ORDERING WEBSITE: - Flask, PyMySQL, HTML, CSS, JavaScript** Source code
 - Developed a food ordering system using **Flask** for the backend, utilizing **PyMySQL** to handle database operations efficiently.
 - Implemented a table-number-based ordering system, eliminating the need for user authentication.
 - Designed an interactive menu interface using **HTML, CSS, and JavaScript**, allowing users to place orders easily.
 - Integrated backend logic to process orders and store them in a structured database for seamless management.

ACHIEVEMENTS

- **Inter IIT Tech Meet 14.0:** Led institute contingent securing **1 Gold, 1 Bronze, and multiple top ranks**.
- Achieved a **Global Rank 3471** in **LeetCode Biweekly 150** among **30,000+** active participants worldwide.
- Solved **350+** problems on **LeetCode** and **Codeforces**.

SKILLS

- **Languages:** C++, Python, Java, TypeScript.
- **Frameworks & Tools:** Next.js, React, FastAPI, Supabase, Docker, Kubernetes, PostgreSQL.
- **Core Concepts:** Data Structures & Algorithms, OOP, DBMS, System Design Basics.

POSITIONS OF RESPONSIBILITY

- **Contingent Leader, IIT Palakkad - Inter IIT Tech Meet 14.0** Sep 2025 - Jan 2026
Led end to end coordination and technical strategy for the institute's participation in Inter IIT Tech Meet 14.0.
 - Designed and implemented structured workflows for problem statement allocation, progress tracking, and mid-prep submissions, achieving **100% on-time compliance**.
 - Represented the institute in board and coordination meetings, resolving rule ambiguities and aligning team deliverables with evaluation criteria, contributing to **podium finishes and multiple top rankings**.
- **Technical Head, Petrichor'26** Apr 2025 - Feb 2026
Led technical planning and execution of flagship fest events with cross-functional coordination.
 - Spearheaded planning of technical events by drafting detailed rulebooks, preparing budgets for prize money and setup costs, and securing approvals from mentors and faculty advisors.
 - Directed execution workflows including event setup, platform readiness, registration management, judge coordination, and cross-team collaboration with finance, design, and promotions to ensure smooth operations and high participation.