KUNAL KUMAR

Operations Research

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Professional Summary

Operations Research Enthusiast with strong foundations in Linear Programming, Integer Programming, and mathematical optimization techniques. Proficient in Python and SQL with experience in analytical problem-solving and model-based solution design. Interested in applying optimization and algorithmic thinking to retail and supply chain use cases.

Technical Skills

Languages: Java, Python, C++, JavaScript, SQL
Data & Analytics: Basic Statistics, Data Analysis, Model Validation & Testing
Databases: MySQL, MongoDB, PostgreSQL
Tools & Platforms: Git, Supabase, Firebase
Operating Systems: Linux, Windows, macOS

Experience

Web Development Intern   **Jun 2023 – Aug 2023**
Webanix, Udaipur   *Angular, Laravel, MySQL*

- Developed and maintained full-stack applications following MVC architecture, ensuring modular and scalable codebases.
- Created responsive UI components using Angular, improving cross-device usability and interface consistency.
- Implemented backend logic, RESTful endpoints, and database interactions using Laravel and MySQL.
- Collaborated with developers to debug issues, optimize performance, and deliver features within deadlines.

Projects

CityShop — Online Marketplace
React Native, Firebase, REST APIs

- Built a cross-platform e-commerce application supporting authentication, product browsing, cart management, and order processing.
- Integrated REST APIs to enable real-time data synchronization and smooth user interactions.

ShareItz — Code Sharing Platform
Next.js, Tailwind CSS, MongoDB, Vercel

- Developed a collaborative code-sharing platform with a modern, responsive interface.
- Deployed on Vercel to ensure scalability, performance, and continuous delivery.

DevSync — Code Collaboration System
Supabase, JavaScript, Judge0 API

- Engineered a real-time collaborative editor using Supabase live data features.
- Integrated Judge0 API to support secure, multi-language code execution.

Certifications & Achievements

CEH v12 Training Certification — GICSEH, Noida
IBM: Introduction to Software Engineering — Coursera
ADCHN — Hacks Udaipur
Nokia Hackathon "Accelerate Her in Tech" — Round 2
TCS CodeVita Seasons 12 & 13 — Round 2
TCS HackQuest Season 10 — Round 2

Education

Master of Computer Applications (MCA)   **2024 – 2026**
Vellore Institute of Technology

Bachelor of Computer Applications (BCA)   **2020 – 2023**
Mohanlal Sukhadia University, Udaipur