Karan Aggarwal

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Education

Indian Institute of Information Technology Jabalpur, India   *Nov. 2022 - Present*
Bachelor of Technology - Computer Science and Engineering
Cleared JEE Mains with 98.8 percentile and JEE Advanced.

Skills Summary

Languages: Java, C++, C, Python, JavaScript, TypeScript, HTML/CSS
Frameworks: ReactJS, NodeJS, ExpressJS, Django, Flask
Developer Tools: Git, Docker, AWS, VS Code, Postman
Databases: MySQL, MongoDB, PostgreSQL, SQLite
Course Work: Operating Systems, DBMS, Computer Networks, Data Structures and Algorithms (DSA), Machine Learning, Software Engineering, Web Development, Cloud Computing

Roles and Responsibilities

BitByte Programming Club   Sep. 2023 - Present
Mentor

- Mentored 30+ students in Data Structures, Algorithms, and Competitive Programming, enhancing coding proficiency and algorithmic understanding.
- Directed technical strategy for 10+ club projects and coding events, driving impactful results and promoting collaboration.

Head Boy, K.C.M World School   *April 2018 - March 2019*
Managed 500+ students, facilitating clear communication and resolving issues between staff and students.

Projects

Quick Clinic   GitHub React, Node.js, Socket.io, MongoDB, UploadThing, WebRTC   August 2024

- Built a real-time communication platform supporting up to 1,000 users for chat and video consultations between doctors and patients.
- Revamped the appointment scheduling process, integrating a user-friendly interface that allowed patients to book appointments with ease; this innovation resulted in a monthly management of over 500 meetings.
- Enhanced patient rescheduling efficiency by implementing a notification system that improved response times, enabling 200+ immediate updates weekly on appointment status changes.
- Optimized management of 1,000+ consultations and schedules through an intuitive interface for seamless booking, reminders, and real-time updates.

Penny Saver   GitHub Vite, ReactJS, TailwindCSS, TypeScript, MongoDB   November 2023

- Date-Based Financial Analysis: Enabled users to log up to 500 daily income and expense entries, visualizing data with interactive graphs.
- Introduced innovative date-based analytics to track over 1,000 financial transactions, visualizing results across selected time spans to empower informed personal finance decisions.
- Crafted a user-friendly interface, cutting onboarding time by 25% and boosting user satisfaction.
- Developed features for categorizing expenses, generating reports, and visualizing trends, enhancing budgeting efficiency by 30

Shop Sizzle   GitHub Shopify, Liquid, HTML, CSS, JavaScript, GraphQL, Prisma, React.js, TypeScript   February 2023

- Revamped product management features, allowing users to browse, search, and filter 10,000+ items, boosting engagement by 20%.
- Streamlined order processing, handling over 1,000 daily transactions with secure checkout and real-time tracking.
- Enabled user accounts, supporting over 10,000 registrations, secure logins, and tracking for 5,000+ transactions.

Achievements

LeetCode Knight (1893): Accomplished 750+ DSA problems.
Codeforces Specialist (1511): Practiced 700+ CP questions.
GeeksforGeeks: Solved 400+ questions.
CodeChef: 4-Star Coder (Rating 1673).