RAJA KUMAR

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SKILLS

Programming Languages: C/C++, Java, Python, Rust
Frameworks Libraries: Next.js, React, Express, TensorFlow, NumPy, Tailwind CSS, ShadCN
Tools Platforms: Git, VS Code, Pycharm, IntelliJ
Core Competencies : Data Structures, Algorithms, OOPS, DBMS, Software Engineering

SOFTWARE ENGINEERING EXPERIENCE

Real-Time Chess Application (GitHUb) | Node.js, Express, Socket.io, AI   Feb 2026
- Engineered a classical chess AI from the ground up by implementing a heuristic evaluation function with 5+ strategic factors such as king safety and pawn structure, enabling complex, human-like decision-making.
- Architected a real-time, stateful multiplayer server using Node.js and Socket.io, enabling seamless, low-latency gameplay for multiple concurrent users and spectators.
- Implemented a MinHeap data structure to optimize the AI's game tree search by efficiently prioritizing candidate moves, significantly improving engine performance.
- Deployed the stateful Node.js application to Render, diagnosing and resolving environment-specific 404 and 500 errors by correcting server routing and build configurations.

Cloudly (View Live) | Appwrite, Next.js, Tailwind CSS, ShadCN   Jan 2025
- Configured Appwrite for secure user authentication, ensuring compliance with data privacy standards.
- Engineered file operations (upload, browse, rename, delete) with optimized backend processes, supporting 10,000+ transactions daily.
- Built an analytics dashboard to visualize storage usage and file distribution, enabling data-driven decisions.
- Enabled global search and file-sharing features, improving team collaboration efficiency by 40%.
- Designed responsive UI with Tailwind CSS and ShadCN for seamless multi-device access.

Portfolio Website (View Live) | Next.js, Tailwind CSS, Sentry   Sep 2024
- Developed a modern portfolio with interactive project galleries and skill visualizations, boosting user engagement by 35%.
- Utilized server-side rendering with Next.js to enhance SEO, improving search rankings by 30%.
- Crafted responsive UI components using Tailwind CSS utility classes for cross-device compatibility.
- Integrated Sentry for real-time error tracking, reducing issue resolution time by 50%.

OTHER EXPERIENCE

SwasthyaPro, Delhi (Remote)   July 2025 - Sep 2025
Digital Marketing Intern
- Strategized and executed social media campaigns, increasing engagement through data-driven content optimization
- Performed SEO audits and implemented on-page strategies, boosting organic traffic by improving search rankings for 10+ landing pages.
- Leveraged Semrush and Google Analytics to monitor KPIs, reducing campaign costs through real-time performance optimization.

EDUCATION

KIIT UNIVERSITY   2023 - 2027
B.Tech in Computer Science and Engineering   *CGPA: 9.07*
Relevant Coursework: Object-Oriented Programming, Databases, Discrete Mathematics, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Data Mining, Advanced Data Structures and Algorithms, Information Retrieval, Image Processing

ACHIEVEMENTS AND CERTIFICATES

- Solved 200+ DSA problems on platforms like LeetCode, GFG, CodeChef, etc
- Completed 45-Day DSA Challenge at USC KIIT, enhancing expertise in algorithmic optimization
- GsSOC 2025 Campus Ambassador
- AIML and Data Science Specialization on Udemy
- Placed 1st Runner-Up in KIIT Hackathon with UiPath Resume Screener project (view project)