

RAJA KUMAR

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SKILLS

Programming Languages: C, Java, Python

Frameworks & Libraries: Next.js, React, Express, TensorFlow, NumPy, Tailwind CSS, shadcn/ui, Asternity

Tools & Platforms: Git, VS Code, MongoDB, REST APIs, Geolocation API, JWT Auth

Core Competencies: Data Structures & Algorithms, OOP, DBMS, System Design, Scalable Web Applications, REST API Development, Cloud-based Applications, Performance Optimization

PROJECTS

PickItUp - Hyperlocal Shop Reservation Platform | Next.js, React.js, MongoDB *In Progress*

- Implemented production-ready JWT authentication with RBAC and OTP verification for secure customer-merchant reservation workflows.
- Architected GPS-based shop discovery using Browser Geolocation API, reverse geocoding, and geospatial queries for accurate nearby store mapping.
- Developed item reservation system with merchant dashboard, inventory toggles, and pickup OTP verification.
- Optimized MongoDB \$geoNear aggregation with 2dsphere indexing for real-time radius-based shop search.

Chess.io - Smarter AI for tougher real-time competition | Node.js, Express.js, Socket.IO, AI Live | [GitHub](#)

- Formulated a heuristic evaluation function incorporating strategic factors such as king safety, pawn structure, material balance, mobility, and center control to enhance positional decision-making over baseline minimax.
- Architected a real-time multiplayer server using Node.js and Socket.IO, enabling concurrent gameplay with synchronized board state updates and event-driven communication.
- Engineered a MinHeap-based priority queue integrated with alpha-beta pruning to optimize game tree traversal and support deeper ply-based search within practical execution limits.

Messy Matters - Managing hostel mess issues and feedback | Next.js, React.js, MongoDB Live | [GitHub](#)

- Developed a centralized feedback platform transforming unstructured complaints into structured, categorized analytics, replacing informal communication channels.
- Created an interactive dashboard to compute meal-wise ratings and identify recurring operational issues across categories.
- Established secure role-based access control (RBAC) for students, wardens, and administrators to streamline submission tracking and resolution workflows.

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

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.

ACHIEVEMENTS AND CERTIFICATES

- Solved 200+ DSA problems across multiple platforms and completed the 45-Day DSA Challenge at USC KIIT.
- Placed 1st Runner-Up in KIIT Hackathon with UiPath Resume Screener project (view project)