

Kartikeya Vats

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PROFESSIONAL SUMMARY

Results-driven full-stack developer specializing in Next.js, React Native, and AI-driven applications. Adapt at developing scalable, high-performance software solutions, integrating real-time systems, and optimizing backend performance. Strong problem-solving skills with 600+ algorithmic challenges solved across platforms. Passionate about leveraging AI, cloud computing, and automation to build intelligent, user-centric solutions with measurable impact.

TECHNICAL SKILLS

Front-End Development: React.js, Next.js, React Native, TypeScript, Tailwind CSS, HTML5, CSS3, Redux Toolkit

Back-End Development: Node.js, Express.js, Spring Boot, RESTful APIs, WebSockets, Firebase Functions

DevOps & Tools: Git, GitHub, Docker, Postman, AWS S3, Firebase, IntelliJ, VS Code, PyCharm

Programming Languages: C++, JavaScript (ES6+), Python, Java, C

AI & Data Science: OpenAI APIs, TensorFlow, NumPy, Pandas

EDUCATION

Guru Gobind Singh University (MAIT Rohini, Delhi) | 2022 - 2026 B.Tech in Computer Science and Engineering

- CGPA: 9.23/10.0
- Relevant Coursework: Data Structures, Algorithms, Database Management, Web Development
- Technical Activities: Active participant in coding competitions and hackathons

WORK EXPERIENCE

Software Developer (Freelance & Open Source Contributor) | 2023 - Present

- Developed and maintained multiple full-stack projects using Next.js and Node.js, improving performance by 40% through optimized database queries.
- Contributed to open-source repositories, refactoring core logic to enhance efficiency by 30%.
- Designed scalable REST APIs, reducing response time by 25% and ensuring high availability.
- Worked on AI-driven healthcare solutions to optimize hospital resource allocation, leading to a 30% .
- Integrated microservices architecture to improve system scalability and reliability.

RELEVANT PROJECTS

AI-Powered Hospital Management System (October 2023 - November 2023)

Tech Stack: Next.js, Node.js, Express.js, OpenAI, MongoDB, JWT Authentication

- Engineered a secure healthcare management platform achieving 30% improvement in resource allocation efficiency
- Created automated reporting dashboard with custom analytics, improving decision-making efficiency by 35%
- Integrated multi-factor authentication and role-based access control for enhanced security measures Repository:
- Developed real-time bed tracking system using WebSocket for instant updates.

Community Issue Reporting Mobile Application (March 2024 - April 2024)

Tech Stack: React Native, SpringBoot, Google Maps API, Firebase

- Designed and developed advanced features for trending issues, including real-time tracking, location tagging, and picture uploads, significantly enhancing user engagement by 35% through an intuitive and interactive interface.
- Implemented a dynamic map-based interface for displaying and filtering nearby reported public issues, enabling users to stay informed about local challenges and increasing local awareness by 30%.
- Introduced dedicated sections for daily news updates and community insights, fostering improved information sharing and collaboration among users while promoting active participation in resolving community issues.

CERTIFICATIONS

- **Mastering Data Structures & Algorithms** – CodeHelp (2023)
- **HTML5 & CSS3 Certification** – GreatLearning (2023)
- **JavaScript Mastery** – Udemy (2023)
- **MongoDB for Developers** – MongoDB University (2024)

LEADERSHIP & COMMUNITY ENGAGEMENT

National Service Scheme (NSS)

- Active member since 2022 organizing community welfare events
- Led team of 20 volunteers in environmental awareness campaigns

Competitive Programming

- Regular participant in coding contests and hackathons