Rahul Kumar Yadav

Full Stack Developer — MERN — AI — Cloud

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Professional Summary

Full Stack Developer (MERN) and AI enthusiast with strong experience building scalable, secure web applications and analytical AI solutions. Proficient in JavaScript, React.js, Node.js, Express.js, Python, and MongoDB. Skilled in REST API development, cloud platforms (AWS, Firebase), and performance optimization. Strong problem-solving abilities and hands-on project and internship experience.

Experience

Web Developer Intern <div align="right">Jun 2025 – Jul 2025</div>

Zidio Web Development — Remote

- Developed a full-stack blogging platform with user authentication, CRUD features, and an admin dashboard using the MERN stack.
- Built an Excel Analytics Platform using SheetJS and REST APIs, improving data-processing efficiency by 40%.
- Optimized MongoDB queries and indexing strategies, reducing API response times by 25%.
- Collaborated in Agile sprints and used Git and Postman for version control and API testing.

Web Development Intern <div align="right">Jan 2024 – Feb 2024</div>

Teachnook — Remote

- Designed and deployed 5+ responsive websites using HTML, CSS, JavaScript, React.js, and Tailwind CSS, improving UI/UX quality by 30%.
- Integrated secure Node.js REST APIs with MongoDB, improving backend performance and reducing server load by 20%.
- Identified and resolved frontend issues, implementing production deployments via Firebase and Netlify.

Projects

Deepfake Detection for Evidence — Forensic AI System <div align="right">2024</div>

- Built an AI-based system to detect video and audio deepfakes using Transformer models, PyTorch, and TensorFlow.
- Developed an investigator dashboard using the MERN stack for anomaly visualization and reporting.
- **Tech:** Python (OpenCV, Librosa), React.js, Node.js, Express.js, MongoDB.

AcademiaSphere — AI + Blockchain Learning Platform <div align="right">2025</div>

- Created a gamified e-learning platform featuring AI-based course recommendations and blockchain-backed certificate validation.
- Implemented analytics dashboards using Chart.js and secure JWT-based authentication.
- **Tech:** React.js, Node.js, Express.js, MongoDB, Hyperledger.

Health Calculators Suite — Web App <div align="right">2025</div>

- Developed BMI, BMR, and Body Fat calculators with modular backend APIs and responsive UI.
- Implemented JWT authentication and client-side validation for secure and accurate calculations.
- **Tech:** React.js, Node.js, Express.js, MongoDB.

Education

Bachelor of Technology (B.Tech), Computer Science and Engineering <div align="right">2022 – 2026</div>

Gurukula Kangri University, Haridwar
GPA: 8.6 / 10

Class 12th <div align="right">2018 – 2020</div>

Sherwood Convent School, Gurugram
Percentage: 85.6

Technical Skills

Programming: JavaScript (ES6+), Python, SQL, HTML5, CSS3
Frameworks: React.js, Node.js, Express.js, Tailwind CSS, Redux, Streamlit
Databases: MongoDB, MySQL, Firebase
Cloud & Tools: AWS (EC2, S3), Firebase, Git, GitHub, Docker, Postman
Core: REST APIs, JWT Authentication, Machine Learning