

# Rahul Kumar Yadav

Full Stack Developer — Software Engineer (MERN — AI — Cloud)

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## Professional Summary

Innovative and detail-oriented **Full Stack Developer (MERN)** and AI enthusiast pursuing B.Tech in CSE. Skilled in developing secure, scalable web apps and data-driven AI solutions. Proficient in **JavaScript, React.js, Node.js, Express.js, Python, and MongoDB**. Experienced with RESTful APIs, cloud services (AWS, Firebase).

## Experience

### Web Developer Intern

Jun 2025 – Jul 2025

*Zidio Web Development*

*Remote*

- Developed a **full-stack blogging platform** with authentication, CRUD APIs, and admin dashboard using MERN stack.
- Built an **Excel Analytics Platform** using SheetJS and RESTful APIs for data parsing, boosting analytical efficiency by 40%.
- Optimized database queries and indexes, improving API response times by 25%.
- Worked in Agile sprints, practiced Git-based version control, and used Postman for endpoint validation.

### Web Development Intern

Jan 2024 – Feb 2024

*Teachnook*

*Remote*

- Designed and launched 5+ responsive websites using HTML5, CSS3, JavaScript, React.js, and Tailwind CSS, improving UX by 30%.
- Integrated secure Node.js REST APIs and MongoDB backend, reducing server load by 20%.
- Collaborated with senior engineers to debug UI issues and deploy on Firebase and Netlify.

## Projects

### Deepfake Detection for Evidence — Forensic AI System

2024

- Engineered an AI-powered system for detecting fake video/audio evidence using **Transformer models, PyTorch, and TensorFlow**.
- Integrated **Hyperledger Fabric blockchain** for immutable evidence storage and report verification.
- Built an investigator dashboard using **MERN stack** for anomaly visualization and forensic report generation.
- **Tech:** Python (OpenCV, Librosa), React.js, Node.js, Express.js, MongoDB, Tailwind CSS.

### AcademiaSphere — AI + Blockchain Learning Platform

2025

- Developed a gamified e-learning portal integrating AI recommendations and blockchain credential validation.
- Implemented analytics dashboards with Chart.js and secure user authentication via JWT.
- **Tech:** React.js, Node.js, Express.js, MongoDB, Hyperledger, Tailwind CSS.

### Health Calculators Suite — Full Stack Web App

2025

- Created BMI, BMR, and Body Fat calculators with modular APIs, user login, and interactive UI.
- Focused on responsive design, form validation, and secure JWT-based authentication.
- **Tech:** React.js, Node.js, Express.js, MongoDB, Tailwind CSS.

## Education

### Bachelor of Technology (B.Tech) in Computer Science and Engineering

2022 – 2026

*Gurukula Kangri University, Haridwar*

*GPA: 8.6 / 10*

## Technical Skills

**Programming Languages:** JavaScript (ES6+), Python, C++, SQL, HTML5, CSS3

**Frameworks & Libraries:** React.js, Node.js, Express.js, Tailwind CSS, Redux, Chart.js, Streamlit

**Databases:** MongoDB, MySQL, Firebase

**Cloud & Tools:** AWS (EC2, S3), Firebase, Git, GitHub, Docker, Postman, Trello

**Core Competencies:** RESTful APIs, JWT Authentication, CI/CD Pipelines, Microservices, Agile Development, Machine Learning