

Rishi Dubey

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PROFESSIONAL SUMMARY

Aspiring Software Engineer specializing in MERN Stack development and Java programming with hands-on experience in building scalable applications. Adept at developing real-time web applications, optimizing backend performance, and implementing secure authentication. Passionate about solving complex problems and contributing to innovative tech solutions

EDUCATION

UPES Dehradun

Computer Science and Engineering

Aug 2022 – May 2026

GPA: 8.91

Delhi Public School, Chhatarpur

CBSE Higher Secondary

2020 – 2022

CBSE Secondary School

Percentage: 92.6%

Percentage: 89.6%

WORK EXPERIENCE

Celebal Technologies, Summer Intern

June 2025 – Aug 2025

- Designed secure real-time chat features with Socket.io, focusing on low-latency messaging and **JWT-based session handling**.
- Enhanced backend scalability in Node.js with **event-driven architecture**, integrating observability for monitoring.
- Applied security practices: authentication hardening, rate-limiting, and structured logging.

Telepathy Infotech Pvt Ltd, Software Engineer Intern

June 2024 – July 2024

- Worked on **SDLC phases**: Requirement Gathering, Secure Implementation, Testing, and Deployment.
- Built API-based workflows with secure integration and client feedback refinement.
- Applied CI/CD pipelines and debugging practices for efficient delivery.

PROJECTS

Real-time Video Conferencing Platform | React, Node.js, MongoDB, WebRTC, Socket.io

[Github-Repo](#)

- Crafted a full stack real-time video conferencing solution, integrating **WebRTC and Socket.io** for seamless video/audio streaming with minimal latency.
- Implemented **secure authentication (JWT, OAuth)** and dynamic meeting room management, allowing unique session IDs for private and group calls.
- Performed **Threat Modeling (STRIDE)** and integrated observability (pino logging).

Wanderlust Travel Planner | Node.js, MongoDB, Bootstrap, JWT

[Github-Repo](#)

- Engineered** a secure trip planner with **JWT authentication and bcrypt hashing**, ensuring robust user data protection.
- Orchestrated** a **LangChain-powered chatbot** to handle travel FAQs and deliver personalized recommendations based on user history.
- Added structured logging & observability pipeline for anomaly detection.

Web Crawler & Data Extractor | Java, Jsoup, Playwright, Maven, Multi-threading

[Github-Repo](#)

- Engineered a high-performance crawler with BFS traversal and multi-threading for faster URL crawling.
- Implemented structured extraction of PDF, images, and videos with automated storage.
- Added error handling for crawler traps (infinite loops) and duplicate URL detection.

TECHNICAL SKILLS

Programming: JavaScript, TypeScript, Java, C, Python

Frameworks & Libraries: React, Next.js, Node.js, Express.js, Socket.io, LangChain

Databases & Security: MongoDB, SQL, JWT, OAuth, WebRTC Security, Threat Modeling (STRIDE)

DevOps & Tools: Docker, GitHub Actions, Postman, Maven, CI/CD Pipelines, Observability, API Development

CERTIFICATIONS

- Certified in Prompt Engineering & AI – Udemy
- AWS Cloud Practitioner Essentials – AWS