

# Rajnish Kumar

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## Summary

Full Stack Web Developer with experience in building scalable web applications, optimizing performance, and integrating AI-driven features. Skilled in front-end and back-end development, problem-solving, and collaborative teamwork, with a passion for learning and adapting to new technologies.

## Education

### National Institute of Technology Agartala (NITA)

Master of Computer Application

Aug 2023 - Present

CGPA 9.0\*/10

### Motilal Nehru College, University of Delhi

B.Sc. Computer Science

Aug 2019 - May 2022

CGPA 8.4/10

## Work Experience

### Software Engineer Intern

Sept 2024 – April 2025

#### Cloud Play Solution *Remote*

- Worked on a full-stack hotel management application using Next.js, Node.js, Prisma ORM, and MySQL, integrating RESTful APIs and implementing secure user authentication.
- Developed and Deployed [DoctorApp](#) website, fixing bugs and errors while adding new features, enhancing functionality and improving overall system performance
- Configured and deployed the application using Docker, streamlining the development and production workflows.
- Gained hands-on experience with Nginx for load balancing and optimizing server performance.

## Project Work

### Compiler AI | WebApp | [Live LINK](#)

- Developed CompilerAI: An AI-powered code compiler supporting multiple programming languages with intelligent code assistance.
- Integrated Google's Gemini API: Added features like code hints, error analysis, and problem-solving intuition, code optimization and graphical representation of code to enhance user productivity.
- Built Secure Code Execution: Leveraged AWS Lambda and Docker to execute code in isolated environments with resource and security constraints.
- Designed Modular Architecture: Implemented a scalable architecture combining React.js, Express.js, Node.js, and AWS Lambda.
- Enhanced User Experience: Designed an interactive code editor with real-time AI-driven assistance and intuitive UI/UX.
- Future Plan: Integrate Retrieval-Augmented Generation (RAG) to enable context-aware AI assistance for more accurate and relevant coding suggestions.

### AI Prompt Master | Chrome Extension | [Webstore LINK](#)

- Engineered a Chrome extension using HTML, CSS, React.js, and Gemini API for AI-powered prompt generation.
- Designed and implemented a user-friendly popup interface to improve accessibility and usability.

### Study Notion – E-Learning Platform | Full Stack Web Application | [Github LINK](#)

- Architected and developed a comprehensive e-learning platform using the MERN stack (MongoDB, Express.js, React.js, Node.js), implementing JWT authentication and RESTful APIs.
- Engineered robust backend services, integrating Cloudinary for media management and payment processing using Razorpay API.
- Designed responsive UI with Tailwind CSS, featuring course creation, user enrolment, and progress tracking.

## Skills

**Languages:** C, C++, Java, JavaScript, TypeScript, Python

**Web Technologies & Tools:** React.js, Redux Toolkit, Tailwind CSS, Express.js, Node.js, REST API, Prisma ORM, JWT Authentication, Git, GitHub, Postman, Figma

**Databases:** MongoDB, MySQL

**DevOps & Cloud:** Docker, Nginx, AWS (Lambda, EC2).

**Security & Performance:** Secure Code Execution, API Optimization, Rate Limiting.

**Other Skills:** Data Structures & Algorithms, System Design Basics

## Achievements

- Published technical article, on Cybersecurity (MITM) at [GeeksforGeeks](#), generating 35k+ views .
- Finalist of Indian Army Hackathon, Capture the Flag Event.
- Achieved a maximum rating of 1636 (top 18.71%) on [Leetcode](#).
- Secured a maximum rating of 1604 on [Codechef](#).
- Finalist in TechGig Code Gladiators 2024, showcasing strong analytical and problem-solving abilities in a national-level competition.