

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.