Rishabh Raj

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□ Portfolio □ LinkedIn □ CodeForces □ GitHub □ LeetCode

EDUCATION

National Institute of Technology, Delhi

May 2025

B. Tech in Electrical & Electronics Engineering

CGPA-7.43 SGPA-9.05

EXPERIENCE

RapidBox June 2024- July 2024

Associate Software-Engineer Intern

Remote

- Developed a Java 17, Spring Boot 3 back-end for a nationwide vehicle rental platform covering 400+ cities with **10,000+ concurrent users**, cutting booking time by **50**%.
- Deployed on AWS with Tomcat, ensuring scalability and high availability; automated CI/CD pipelines, reducing release times by 60%.
- Achieved 95% endpoint success in Postman testing, lowering post-deployment bugs by 40%.
- Optimized MySQL queries, cutting execution time by 25% and enhancing response time by 40% during peak traffic.

Engineers' Cradle June 2023- July 2023

Data and Market Research Intern

Remote

- Formed partnerships with 200+ technology institutions and engineering firms, uncovering 100+ opportunities for business expansion in the **financial sector**.
- Analyzed 50+ prospective clients, compiled contact databases, created 30+ detailed organizational profiles, identified key decision-makers, and devised strategic engagement plans.

PROJECTS

Medikart - Comprehensive MERN Stack HealthCare Delivery Website

Live GitHub

- Architected a full stack website with ReactJS and dedicated MongoDB collections achieving a perfect score of 100 for Accessibility and Best Practices from PageSpeed Insights.
- Engineered 5+ robust back-end APIs using **Node.is**. Express and utilized MongoDB Atlas for efficient authentication and order handling.
- Strengthened security with **JWT** authentication and **bcrypt.is**, reducing unauthorized access by 70% and implementing **Google reCAPTCHA v2** to prevent bot interactions.
- Implemented cart functionality with Context Reducer API and real-time notifications using react-hot-toast, increasing user engagement by 50%.
- Incorporated Stripe API for online payments, achieving a 95% transaction success rate and ensuring secure payments.

AgriProPlus - An Extensive Agriculture Assistance Tool

Live GitHub

- Built the frontend using React and Chakra UI, integrating news and YouTube APIs to deliver farming content.
- Executed user authentication with Firebase, customised a Python scraper for extracting agricultural schemes data, stored in MongoDB, and served via Node.js/Express backend.
- Created a LSTM-based ANN model for crop recommendations with 98.48% accuracy to cut agricultural losses by 20%.

Integrated AI-driven Condition Monitoring and Fault Diagnosis for Induction Motors

[Report] GitHub

- Engineered hardware and software model for fault diagnosis of single-phase induction motors using ANN and DWT.
- Deployed deep learning based Motion Amplification Video (MAV) techniques to visualize and detect incipient mechanical and vibrational faults.
- Formulated a DWT-based ANN model utilizing the tanh activation function, achieving 98.70% accuracy in fault detection.

TECHNICAL SKILLS

Languages & Tools: Python, Java, C++, JavaScript, Microsoft Excel, SQL, Matlab

Frontend: React, Next, TailwindCSS, HTML, CSS, Bootstrap, Chakra UI, YAML

Backend & Databases: Node.js, Express.js, PostgreSQL, MongoDB

Developer Tools: GitHub Actions, Postman, VS Code, GitHub, Eclipse, Thunder Client, Firebase

POSITIONS OF RESPONSIBILITY

Placement Cell Sector Head-Led a team of 25+ junior coordinators for outreach and a POC for 30+ companies. NITD Alumni Cell- General Secretary-Organized impactful alumni sessions and facilitated connections with 1500+ alumni **Technical Club Upvision** -Management Head-Conducted 10+ technical events with peak of 500+ attendees and 10k in prizes.

ACHIEVEMENTS AND RECOGNITION

- Global Rank 38 in START115C and Rank 145 in START114C on Codechef out of more than 5000 participants globally.
- Secured a global rank of 1352 in LeetCode Contest 329, among 25,000+ participants, in top 9.36% coders site-wide. Flipkart Grid Semi-Finalist ending up in top 800 qualifiers out of 4,00,000+ participant teams across the entire nation.
- Top 5 percentile in Adobe X GeeksForGeeks Generative AI Hackathon out of 50000+ participants across the entire nation. Coding Profiles - [Leetcode (1750+)] [GFG] [Codeforces (Specialist -1400+)] [Codechef-3 stars (max 1700+)]