

# Rahul Raj

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## EDUCATION

### National Institute of Technology Warangal

*Masters of Computer Applications (7.93 CGPA)*

Warangal, Telangana

Aug 2022 – Jun 2025

### College of Commerce, Arts and Science

*Bachelor of Computer Applications (70.93 %)*

Patna , Bihar

Jun 2017 - Dec 2020

## EXPERIENCE

### Texas Instruments, Bangalore, India

*SDE Internship*

Jan 2025 – Jul 2025

[Certificate](#)

### Windows Client GPO Review Portal | *React, Flask, PowerShell, Active Directory*

- Engineered a React/Flask-based portal, automating the Group Policy Object review process, reducing manual review time by 75% across 400+ Windows environment GPOs and decreasing security vulnerabilities.
- Developed PowerShell scripts to automate extraction of 500+ Group Policy Objects from Microsoft Active Directory, accelerating compliance reporting and reducing manual effort by 40 hours per week.
- Established a comprehensive repository of well-documented code, enabling seamless knowledge transfer among team members, and reducing onboarding time for new engineers by 20%.

### IT Compliance & Internet Block Automation Portal | *React, Flask, SQL Server, PowerShell, AD, Spotfire*

- Designed a full-stack Windows patching compliance application using React, Flask, and SQL Server, providing real-time visibility into patch status across 5000+ devices and reducing security vulnerabilities by 35%.
- Integrated Spotfire, Active Directory (AD), and PowerShell to automate patch status monitoring and internet access control, which reduced IT support tickets by 15% and saved 10 hours weekly.
- Architected a streamlined user interface using React and Node.js for compliance documentation uploads, coupled with an administrative module to process exception requests.
- Engaged in testing, debugging, and iterative development to ensure reliability, performance, and user satisfaction.

## PROJECTS

### Elevator Simulation | *Python, Flask, REST API, JavaScript, HTML, CSS*

[Git Repo](#)

- Architected a scalable elevator simulation using Python and the Flask framework, showcasing proficiency in backend development and RESTful API design, handling up to 1000 simultaneous elevator requests.
- Implemented real-time elevator movement visualization using server-sent events over a stream-based HTTP connection.
- Facilitated more than one elevators with selection based on floor distance and movement direction.
- Optimized elevator scheduling using the LOOK algorithm to reduce wait times and improve movement efficiency.

## TECHNICAL SKILLS

**Programming Languages:** C++, Python, Java, JavaScript, Powershell, HTML.

**Web Frameworks:** React, NodeJS, ExpressJS, Tailwind CSS.

**Databases:** MongoDB, MySQL, SQL Server.

**Developer Tools:** Postman API, VS Code, Git, Github, Bitbucket, Confluence, JIRA.

**Core Skills:** Algorithms, Data Structures, Software Design Principles.

**Area of Interest:** Full Stack Development, Web Application.

## Achievements

- Secured 4th position out of 1800 competing teams at TRI-NIT Hackathon 3.0 in 2024, earning a notable mention for innovative solution design and effective teamwork under strict deadlines.
- Achieved All India Rank 319 in the National Institute of Technology MCA Common Entrance Test (NIMCET) in 2022, demonstrating exceptional aptitude in quantitative aptitude and logical reasoning skills.

## Coding Platforms

Leetcode

[DexTerMtor](#)