

ROHIT PATWA

Lucknow, Uttar Pradesh

☎ +91 9792430836 ✉ therohitpatwa@gmail.com [in linkedin.com/in/therohitpatwa](https://www.linkedin.com/in/therohitpatwa) github.com/therohitpatwa

Summary

B.Tech CSE student with strong skills in Java, backend development, and web technologies. Seeking opportunities to apply my problem-solving skills and backend expertise in real-world software development

Relevant Coursework

• Data Structures and Algorithms • Database Management • Computer Networks • Operating System

Technical Skills

Programming Languages: C, Java

Backend & Frameworks: JDBC, Servlet, Spring Core, Spring Boot, Spring Security, Microservices

Frontend: HTML, CSS, JavaScript, React.js

Database: MySQL

Tools & Platforms: Maven, Git and GitHub, Linux, Docker, Digital Ocean

Projects

PixelNova - Async Image Processor • [Source Code](#) • [Demo Video](#) • [Blog](#) July '25

- This project is an image processing application built with Java and the JavaFX framework. At its core, it's a desktop tool that allows a user to apply various filters like greyscale, colortint etc. to a digital image.
- Uses asynchronous image processing and multithreading to enhance performance. It divides images into sections for parallel processing by an ExecutorService. Crucially, it employs thread-safe GUI updates by ensuring the JavaFX Application Thread is the sole entity modifying the UI, preventing conflicts and maintaining responsiveness.
- Designed with a modular architecture to allow easy integration and extension with new image filters.
- Skills acquired - Java, MultiThreading, Executor Service, JavaFx.

Multithreaded Web Server • [Source Code](#) • [Server Performance Report](#) September '24

- Developed a multithreaded web server client-server communication model in Java capable of handling multiple client requests simultaneously using sockets and threads. where clients send requests, and the server responds with a message. Managed input/output streams and socket connections for communication.
- Utilized Java's `Runnable` and `Thread` classes to process multiple client connections concurrently, improving server scalability and efficiency.
- Conducted load testing using Apache JMeter, simulating multiple client requests approx 60000/min to measure the server's performance and identify bottlenecks (At intel i5 12 core CPU).
- Skills acquired - Java, MultiThreading, ThreadPool, Socket Programming.

Achievements and Certificates

- Solved 200+ DSA Questions at [Coding Ninja](#) and [LeetCode](#).
- Java Full Stack Development Completion Certificate. [Attached Certificate](#)
- Participated in Galgotias University Hackathon 2025. [Attached Certificate](#)

Education

RR Institute Of Modern Technology, Lucknow

Bachelor of Technology in Computer Science

Aug. 2022 – Present

CGPA - 8.43

CSSIC, Siddharthnagar

Intermediate

Aug. 2018 – June 2020

Percentage - 65

SGIC, Siddharthnagar

High School

Aug. 2016 – June 2018

Percentage - 79