

# JATIN PATHANIA

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## Summary

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Computer Science undergraduate with strong foundations in Data Structures & Algorithms, Object-Oriented Programming, and backend development using Java and Node.js. Experienced in designing RESTful APIs, database modeling with MySQL and MongoDB, and developing secure, scalable web applications. Proficient in writing clean, efficient code with focus on performance optimization and structured system design. Passionate about backend engineering and building reliable production-grade systems.

## Technical Skills

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**Languages:** Java, C++, JavaScript, TypeScript, C  
**Frontend:** React.js, Next.js, Tailwind CSS  
**Backend:** Node.js, Express.js, Prisma ORM, REST APIs, JWT  
**Database:** MongoDB, PostgreSQL  
**Cloud & Tools:** Git, GitHub, Netlify, Vercel  
**Core CS:** Data Structures & Algorithms, OOP, DBMS, Operating Systems  
**Software Practices:** API Design, Authentication, Performance Optimization

## Projects

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### College Cart – University Marketplace Platform

GitHub | Live

- Designed REST APIs handling user authentication, product listing, and order management.
- Structured and optimized MongoDB schemas, implemented role-based access control, and ensured secure API communication using JWT authentication.

**Tech Stack:** React.js, Tailwind CSS, Framer Motion, Node.js, Express.js, MongoDB, Razorpay, Socket.io, Cloudinary, Nodemailer, Groq API

### TaskNet - University Assignment Approval System

GitHub | Live

- Designed and implemented a role-based backend workflow system following MVC architecture to manage multi-level assignment approvals.
- Implemented file uploads, Cloudinary storage, email notifications, and secure authentication using JWT and Bcrypt.

**Tech Stack:** MongoDB, Express.js, Node.js, EJS, CSS, Cloudinary, Nodemailer

### Reach-Out – Real-Time Chat Application

GitHub

- Designed and developed a full-stack real-time chat system using NestJS and PostgreSQL, implementing REST APIs and WebSocket communication (Socket.io) for instant message delivery and friend management workflows.
- Structured relational database schemas for users, messages, and friend requests, and implemented JWT-based authentication, user blocking, and secure profile management with Cloudinary integration.

**Tech Stack:** React, TypeScript, NestJS, PostgreSQL, Socket.io, JWT, Cloudinary

## Education

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### Bachelor of Engineering in Computer Science

Expected June 2027

Chitkara University, Himachal Pradesh

CGPA: 8.94

## Work Experience

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### Full Stack Developer (Academic & Hackathon Projects)

Aug 2023 – Present

Chitkara University

Himachal Pradesh, India

- Built and deployed full-stack web applications using **JavaScript, Node.js, Express.js, and MongoDB**.
- Served as **Team Lead** for a 6-member team at **Smart India Hackathon 2025**, designing a scalable digital prototype for real-world challenges.
- Developed a content moderation tool at **HackIndia 2025** that successfully identified and **removed abusive/hateful language** from online interactions under strict 48-hour deadlines.
- Implemented **RESTful APIs** and performed system testing to ensure secure authentication and data integrity.

## Certifications and Achievements

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Solved 200+ DSA problems on LeetCode (Trees, Graphs, DP, Recursion).

Participated in competitive coding contests including CodeWars (IEEE) and Naukri Campus Young Turks.

Participated in NITS Hacks 8.0 (NIT Silchar) via Unstop – national-level coding hackathon.