

# ARPIT YADAV

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## OBJECTIVE

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Software Development Engineer (SDE) aspirant with strong fundamentals in Data Structures & Algorithms, Object-Oriented Programming, and Low-Level Design. Seeking SDE Intern / SDE-1 roles. Hands-on experience in building scalable RESTful backend systems and full-stack applications using Java, React.js, Node.js, Express.js, MongoDB, MySQL, and JWT authentication. Solved 250+ DSA problems on LeetCode.

## EDUCATION

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**Thapar Institute of Engineering & Technology (TIET), Patiala**

2023 – 2027

Pursuing B.Tech – Electrical & Computer Engineering

## SKILLS

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Languages	Java, JavaScript
Frontend	React.js
Backend	Node.js, Express.js
Databases	MySQL, MongoDB
Tools & Concepts	REST APIs, JWT, Git, Razorpay, Leaflet.js, System Design

## PROJECTS

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### FlowGrid – Smart Service Booking Platform

[GitHub](#)

- Built a full-stack, role-based service booking platform using React.js, Node.js, Express.js, MySQL, and JWT.
- Developed scalable REST APIs for real-time slot booking and provider management.
- Reduced API response time by 40% and handled 500+ concurrent booking requests using optimized queries and database constraints.

### Phatak Radar – Real-Time Location & Alert System

[GitHub](#)

- Developed a real-time geospatial tracking system with live map visualization using Node.js and Express.js.
- Built low-latency REST APIs to process continuous location updates.
- Processed 1,000+ geospatial updates per minute efficiently.

### NoLine – QR-Based Smart Queue & Verification System

[GitHub](#)

- Implemented FIFO queue logic with a state machine (WAITING → BILLED → VERIFIED).
- Optimized MongoDB schema and indexing for QR-based verification.
- Reduced queue lookup time from  $O(n)$  to  $O(1)$ .

## LEADERSHIP & ACTIVITIES

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- Innovation Ambassador – Institution's Innovation Council (MoE); mentored 150+ students.
- Lead Organizer – Innovative Startup Expo; coordinated 50+ startups and industry connects.
- Campus Organizer – Smart India Hackathon (2024–25); supported 130+ teams.

## ACHIEVEMENTS

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- Solved 250+ problems on LeetCode.
- Strong problem-solving skills in Arrays, Trees, Graphs, Dynamic Programming, and Two Pointers.