

# Sehajdeep Singh

+91 7347686821 | ssingh24.be28@thapar.edu | LinkedIn | GitHub

Full-Stack Developer specializing in MERN stack with hands-on experience architecting scalable REST APIs, secure JWT systems, and real-time web applications. Proven problem-solver with hackathon wins.

## Education

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**Thapar Institute of Engineering and Technology**

*B.Tech in Computer Engineering*

**Patiala, India**

2024 – 2028

## Projects

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**OnlyHorse — Social Commerce Platform | TypeScript, Next.js, MongoDB, Kinde Auth** 2026

- Engineered a creator-led social commerce platform enabling seamless content-to-purchase journeys.
- Built full-stack features using **Next.js** (App Router, API routes, server actions), eliminating the need for a separate backend service.
- Implemented secure authentication and session management using **Kinde**, enabling seamless user onboarding and protected routes.
- Designed a dynamic, SEO-friendly frontend with **Next.js** and **TypeScript**, improving performance and user engagement.
- Integrated **MongoDB** for efficient data storage and retrieval of users, products, and interactions.

**WatchGenie — Streaming Platform | JavaScript, Node.js, TMDB API, JWT** 2026

- Built a secure movie and TV streaming platform with **JWT-based authentication** for protected user access.
- Integrated **TMDB API** to fetch real-time movie and TV show data with instant trailer playback functionality.
- Designed a smooth and responsive user interface for browsing and streaming content.
- Implemented backend services using **Node.js** and **Express.js** for efficient data handling and session management.

**Bank Transaction Management API | Node.js, Express.js, MongoDB, JWT** 2026

- Architected a transaction-processing backend supporting deposits, withdrawals, and transfers with atomic operations to ensure data consistency.
- Implemented validation, centralized error handling, and structured logging to enhance reliability and simplify debugging workflows.
- Secured APIs using **JWT-based authentication** and environment-based configuration, enforcing safe and scalable access control.

## Experience

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**Team Lead — Team Return 0**

*Makeathon 8.0 Hackathon*

- Directed technical development and system architecture decisions, leading team to **1st place among 110+ teams**; orchestrated end-to-end delivery managing Git workflows and cross-functional integration.

**Tech Head — IETE Thapar Society**

*Thapar Institute of Engineering and Technology*

- Promoted from Core Member (**Jul 2025 – Apr 2026**) to Tech Head for demonstrating leadership in managing the society's technical operations and initiatives.
- Spearheaded large-scale technical events (Elementos 10.0, Electrosprint); facilitated hands-on workshops mentoring **50+ students** per session on full-stack and embedded concepts.

**Core Member — Institution's Innovation Council (IIC)**

*Thapar Institute of Engineering and Technology*

- Organized innovation-driven events, accelerating student engagement in startup ecosystems and emerging technology discussions.

**Patiala, India**

Feb 2026

**Patiala, India**

May 2026 – Present

**Patiala, India**

Aug 2025 – Mar 2026

## Achievements

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- **1st Place — Makeathon 8.0:** Outperformed 110+ offline finalist teams after qualifying through a highly competitive online selection round.
- **Finalist — HackTu 7.0:** Selected among top teams from 3000+ participants in one of the region's largest hackathons.
- **Finalist — Vihaan 9.0:** Selected among top teams out of 3000+ participants at DTU's flagship hackathon.

## Technical Skills

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**Languages:** JavaScript (ES6+), TypeScript, Python, C++

**Frontend:** Next.js, React, Tailwind CSS, shadcn/ui, Zustand, Redux Toolkit, Bootstrap

**Backend:** Node.js, Express.js, RESTful API Design, JWT Auth

**Databases:** MongoDB, MySQL

**Tools & Platforms:** Git, GitHub, Postman