

DEEP HALDER

Sonepat, Haryana, India

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Professional Summary

CSE undergraduate with strong foundations in **DSA, OS, DBMS, and Networks**. Experienced in building **full-stack applications** with **React, Next.js, Node.js, Express, MongoDB, PostgreSQL**, and designing **microservices** with **RabbitMQ**. Skilled in creating **scalable applications** and **secure APIs**, with over **900 algorithmic problems** solved on **LeetCode, Codeforces, and GFG**. Proven ability to work effectively in teams through hackathons and collaborative projects.

Education

Indian Institute of Information Technology (IIIT) Sonepat

NOV 2022 – JUN 2026

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

CGPA – 8.33

Relevant Coursework: Data Structures & Algorithms, DBMS, OS, CN, Automata, Compiler Design, OOP (Java/C++), Software Engineering, Big Data, ML, Cloud Computing

Experience & Participation

Hackzilla (National Hackathon) — Team of 4 – Top 5 / 100+ Teams 2025

- Designed and deployed an ML-based crowd flow predictor to optimize emergency response in dense gatherings.
- Assembled real-time data pipelines for crowd movement, improving response efficiency by **20%**.
- Delivered a fully functional prototype within 24 hours, leading to a Top 5 finish nationally.

Vihaan 8.0 Hackathon — Team of 3 – Participant 2024

- Developed a healthcare platform enabling real-time doctor-patient communication using WebSockets.
- Integrated appointment scheduling and instant chat features, reducing response delays by **35%**.
- Collaborated in agile sprints, focusing on fast prototyping and usability testing.

Technical Projects

1. AI Resume Analyzer (REACT ROUTER, PUTER, ZUSTAND, TAILWIND) [GITHUB](#) JUL 2025 – AUG 2025

- Developed a resume analyzer that leveraged GPT models to evaluate resumes against job descriptions
- Improved client-side storage for resumes using Puter's FileSystem and KV store, ensuring faster resume retrieval.
- Managed app-wide state using Zustand and enhanced routing with Vite and React Router.
- Observed 25% faster navigation after migration to Vite.

2. MovieMania (REACT.JS, APPWRITE, TMDB API, TAILWIND CSS) [GITHUB](#) → [LIVE](#) JUN 2025 – JUL 2025

- Built a movie browsing app with React and Tailwind, integrating TMDB API to enable users to explore over **500k titles** with faster query response.
- Created a trending algorithm using Appwrite Cloud Functions based on user search history.
- Integrated debounced search, reducing redundant API calls by 30% and improving app responsiveness.

3. Subscription Tracker (EXPRESS.JS, MONGODB, NODemailer, ARCJET) [GITHUB](#) APR 2025 – MAY 2025

- Designed a secure backend API for subscription management using JWT authentication and MongoDB.
- Automated renewal reminders with Nodemailer, helping users track subscriptions preventing missed renewals by 40%.
- Enhanced API security with ArcJet, blocking over 100 malicious requests daily and controlling suspicious activity.

4. Startup Stage (NEXT.JS, REACT, NEXTAUTH, SANITY, SENTRY) [GITHUB](#) → [LIVE](#) OCT 2024 – NOV 2024

- Created a startup pitching platform enabling dynamic content editing via Sanity CMS.
- Enhanced performance and SEO by implementing Partial Prerendering and selective hydration in Next.js.
- Secured user authentication through NextAuth.js and set up real-time error tracking with Sentry.

Academic Projects

1. Chess Engine (C++) [GITHUB](#) MAR 2025 – APR 2025

Developed a chess engine using **bitboards** and the **minimax algorithm** with **alpha-beta pruning**. Achieved **100k+ positions evaluated per second**, implemented efficient move generation, board evaluation heuristics, and legal move validation, outperforming a naive array-based implementation by **3x speed**.

2. WSN Optimization using Ant Colony Algorithm (Python) [GITHUB](#) MAY 2024 – OCT 2024

Simulated energy-efficient routing in a **1000-node** Wireless Sensor Network using ACO, achieving **12% lower energy consumption** and **15% longer network lifetime** compared to LEACH and Flooding protocols. Optimized adaptive pathfinding by mimicking real-world ant behavior for dynamic network loads.

Technical Skills

Programming Languages: JavaScript, TypeScript, C, C++, Java, Python, SQL

Frontend: React.js, Next.js, Tailwind CSS, Zustand, HTML, CSS

Backend: Node.js, Express.js, RESTful APIs, WebSockets (Socket.IO), RabbitMQ

Databases: MongoDB, PostgreSQL, Prisma ORM

DevOps and Cloud: Git, GitHub, Docker, Linux (Bash), Cloud Deployment (Vercel, Netlify)

Other: Authentication (JWT, OAuth), PDF.js, ShadCN UI

Achievements

Solved 600+ problems on [LeetCode](#), [Codeforces](#) (rated 1114), [GFG](#).

Ranked **Top 5/100+** at **Hackzilla** (national-level hackathon) for developing an ML-based crowd flow predictor to optimize emergency response in dense crowds.

Collaborated in a 3-member team at **Vihaan 8.0** hackathon to build a healthcare app with real-time doctor-patient communication.