

DEEP HALDER

Sonepat, Haryana, India

✉ deephalder122002@gmail.com | ☎ +91-8101838006 | [in LinkedIn](#) | [GitHub](#) | [LeetCode](#) | [Portfolio](#)

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

- AI Resume Analyzer** (REACT ROUTER, PUTER, ZUSTAND, TAILWIND) [GITHUB](#) → [LIVE](#) 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.
- 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.
- 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.
- 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

- 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**.
- 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.