

# Arpan

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## EDUCATION

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### Chitkara University

Bachelor of Engineering Computer Science, **GPA:9.67**

Aug. 2023 – May 2027

## EXPERIENCE

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### Open Source Chandigarh | DSA Team Member

- Actively contributing to the Open Source Chandigarh community, focusing on Data Structures & Algorithms (DSA) and front-end development.
- Collaborated with other developers to solve algorithmic challenges, enhancing problem-solving skills and efficiency.
- Engaged in community discussions, helping peers with JavaScript and React-related queries to foster collaborative learning.

## PROJECTS

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### AiChess | MERN Stack, Socket.io, Stockfish Engine, MongoDB

- Developed a comprehensive real-time chess platform using MERN stack with Socket.io for multiplayer gameplay, JWT authentication, and role-based access control for Players and Admins
- Integrated Stockfish chess engine with customizable difficulty levels (1-25 depth) for AI gameplay, featuring game analysis, tactical hints, move validation, and PGN/FEN notation support
- Built real-time multiplayer system with ELO rating calculations, matchmaking queue, live chat, game replay functionality, and comprehensive admin dashboard with user management and analytics

### Study Notion | MERN Stack, MongoDB, Cloudinary, Razorpay

- Developed a full-stack e-learning platform using MERN stack with JWT authentication and role-based access control for Students, Instructors, and Admins
- Integrated Razorpay payment gateway for course purchases and built comprehensive course management system with video uploads via Cloudinary
- Created instructor dashboard with analytics, course creation tools, and automated email notifications using Nodemailer for enrollment confirmations

## TECHNICAL SKILLS

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**Programming Languages:** C++, C, Java, JavaScript, SQL

**Web Development:** HTML, CSS, JavaScript, React.js, Tailwind CSS, Node.js, Express.js, WebSocket

**Databases:** MongoDB, MySQL, PostgreSQL

**Tools & Technologies:** Git, GitHub, VS Code, Postman

**Software Development Concepts:** Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP)

**Authentication & Security:** JWT Authentication, OAuth, Firebase Authentication

**Soft Skills:** Teamwork, Adaptability, Communication, Time Management, Attention to Detail

## Honors & Certificates

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**Dean's List Awardee** — Achieved academic excellence by securing a position in the department for [Second Semester – 2023].

**Selected Finalist** – Tech Abhivyakti