

# Pranav Chandra

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## Summary

Full-stack developer specializing in Node.js, modern JavaScript and TypeScript. Experienced in delivering end-to-end features across React/Next.js frontends and Node.js services with emphasis on correctness, performance, and maintainability. Skilled in designing API contracts, authentication and authorization workflows, data access layers, and state management. Proficient with both relational and document databases, applying schema design, indexing, and efficient querying to real product requirements.

### Tech Focus:

React • Next.js • Docker • Node.js • Express • MongoDB • RESTful APIs • Auth & Session Handling • PostgreSQL • Git & GitHub Performance Optimization • Problem-Solving

## Education

<b>Amity University Online, Noida</b> Bachelor's of Computer Applications	Jan 2023 - Present CGPA: 8.34 (till 5 <sup>th</sup> September)
<b>Pilot Training Center, Delhi</b> Commercial Pilot License Course	Jan 2021 - Oct 2022 Trained on and cleared DGCA Exams
<b>Wynberg-Allen School, Mussoorie</b> ISCE Curriculum	May 2020 Grade: 87%

## Work Experience

<b>Freelance Developer,</b> <i>AOA Society Website</i>	Feb 2025 - Oct 2025 Noida, India
<ul style="list-style-type: none"><li>Implemented MERN-based features for future scalability, including member management and database integration.</li><li>Planned automation workflows for member verification, notifications, and email communication.</li><li>Recognized by the society for contributing to improved transparency and digital accessibility.</li><li>Designed workflows for OTP-based verification and secure certificate downloads through a ReactJS frontend.</li><li>Planned dynamic PDF generation from templates, automatically embedding member details (name, flat number, etc.).</li></ul>	

## Projects

### Debatrium

#### *Online Debating Platform*

- Built a full-stack MERN SaaS debating platform with PDF upload and AI-driven debate analysis using LLMs (argument evaluation, counterpoints, scoring).
- Implemented secure authentication with JWT, HttpOnly cookies, refresh token rotation, role-based access, and API rate limiting.
- Optimized performance using token-aware chunking, async/background processing using Inngest, deduplication, and indexed MongoDB queries, reducing latency and compute cost.
- Deployed a Dockerized, cloud-ready architecture with NGINX and CI/CD, with planned real-time AI voice debates using Vapi and Redis for low-latency interactions.

### PairCode

#### *Collaborative Coding Interview Platform*

- Built a real-time coding interview platform featuring a VSCode-powered code editor, 1-on-1 video interview rooms, live chat, screen sharing, and recording.
- Implemented secure authentication with Clerk, room locking (2 participants only), and isolated code execution with automated test-case-based feedback (pass/fail).
- Designed a dashboard with live stats and a solo practice mode, using TanStack Query for efficient data fetching and caching.
- Integrated background jobs with Inngest, maintained a Node.js & Express REST API, followed GitHub PR workflows, and deployed on Sevalla with production-ready setup.

## Certifications

- JavaScript Certification — Udemy (2024)
- MERN Stack Development — Offline Course at GeekForGeeks (May 2025 - August-2025)
- Next.js Certification — Udemy (2025)