

# ADITYA SIRSALKAR

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## Education

<b>Indian Institute of Information Technology, Allahabad (IIITA)</b> <i>B.Tech in Information Technology (CS/IT equivalent) — CGPA: 8.4</i>	Aug 2024 – Present Prayagraj, India
<b>JEE (Main) — National Testing Agency</b> <i>Percentile: 99.68 — All India Rank: 5183</i>	Apr 2024 India
<b>Ace Academy — Class X</b> <i>Percentage: 94%</i>	Mar 2022 Chhatrapati Sambhajanagar, India

## Coding Profiles

🔗 **LeetCode: Knight** (Top 5%, Max Rating: 1877) **3-Star** (Max Rating: 1640) ⚡ **Codeforces: Specialist** (Max Rating: 1465) 🍴 **CodeChef:**

## Technical Skills

**Languages:** C++, Java, Python, JavaScript, TypeScript, R, SQL (MySQL)  
**Frontend:** React.js, Tailwind CSS, HTML5, CSS3, Material UI  
**Backend & Tools:** Node.js, Express.js, MongoDB, MySQL, Git/GitHub, Vercel, WebAssembly, VS Code  
**Concepts:** Data Structures & Algorithms, Operating Systems, OOPs, SDLC, Agile Methodologies, System Design

## Projects

### Swasthya-Setu — Integrated Hospital-Patient Bridge

*Role: Full Stack Developer & AI Integration — React.js, Node.js, Gemini API* 🔗 **Live Link** — 🐙 **Code**  
Architected a centralized healthcare platform serving **3 user roles** (Patients, Doctors, Hospitals), reducing manual appointment scheduling time by an estimated **40%**.  
Integrated **Google Gemini AI** to process symptom queries and summarize medical records, improving triage efficiency for **100+** simulated patient scenarios.  
Authored comprehensive API documentation and facilitated cross-functional communication within a **6-member team**, ensuring seamless Agile integration and reducing merge conflicts by **90%**.

### High-Performance Pathfinding Visualizer

*Role: Solo Developer — C++, WebAssembly, React, TypeScript* 🔗 **Live Link** — 🐙 **Code**  
Engineered a high-frequency visualizer using **C++ and WebAssembly**, achieving **10x faster execution** (sub-50ms latency) for complex graphs compared to JS-only solutions.  
Implemented **5+ algorithms** (A\*, Dijkstra, Bidirectional BFS) and visualized pathfinding across grids of up to **2,500 nodes** with real-time performance benchmarking.  
Designed a responsive UI with **React and Vite**, enabling users to generate **50+ random maze patterns**.

### FocusFlow — Productivity Web App

*Role: Developer — React.js, Tailwind CSS, LocalStorage* 🔗 **Live Link** — 🐙 **Code**  
Deployed a task management app handling **50+ concurrent tasks** with **zero latency** by leveraging React Hooks and optimized LocalStorage caching.  
Optimized application performance by implementing **Lazy Loading** and efficient state management, ensuring a seamless user experience across mobile and desktop devices.  
Reduced task organization time by **30%** through the implementation of an automated priority-sorting algorithm and deadline tracking system.

## Positions of Responsibility

### Chess Event Coordinator

*Student Community* Aug 2025 – Present  
*IIIT Allahabad*  
Orchestrated a hybrid chess tournament for **100+ online participants**, designing a competitive qualifier format where the **top 32 players** advanced to the offline finals.  
Directed **50+ rapid chess matches** over 48 hours, mediating disputes and automating result compilation for the live leaderboard.

## Achievements

Ranked in the **Top 5%** of global users (Knight Badge) on LeetCode with a max rating of **1877**.  
Solved **800+** algorithmic problems across LeetCode, Codeforces, and CodeChef, maintaining a streak of **100+ days**.  
Secured **AIR 5183** (99.68 percentile) in JEE Main 2024, outperforming **1.4 million** candidates nationwide.  
Co-engineered a prototype event management solution with a **4-member team** during the 36-hour OOC Hackathon.