

# ARUN KUMAR

Rudrapur, Uttarakhand

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🌐 [LinkedIn](#)

👨‍💻 [CodeChef](#)

🏆 [Codeforces](#)

🏆 [LeetCode](#)

## EDUCATION

**Indian Institute of Information Technology, Prayagraj**

*B.Tech - Information Technology (Major) & Entrepreneurship (Minor)* CGPA: **8.36/10**

**Aug 2023 – Present**

*Prayagraj, UP*

**R.A.N Public School**

*Post-Matriculation, CBSE* Percentage: **85.8%** [↗](#)

**Apr 2021 – Jul 2022**

*Rudrapur, Uttarakhand*

**R.A.N Public School**

*Matriculation, CBSE* Percentage: **98.4%** [↗](#)

**Apr 2019 – Jul 2020**

*Rudrapur, Uttarakhand*

## COURSEWORK

Data Structures and Algorithms, Operating Systems, Computer Networks, Object-Oriented Programming, Web Development, Database Management Systems, Design and Analysis of Algorithms

## SKILLS

**Languages:** Java (OOP, multithreading), C++ (STL, competitive programming), C, Python (data analysis), JavaScript (web), HTML, CSS

**Frameworks/Tech:** Git (version control), GitHub, MySQL (RDBMS), React.js (UI), Node.js (backend), MongoDB (NoSQL), Firebase (real-time DB)

**Learning:** Android Development (mobile apps), Kotlin (modern Android), Firebase (cloud), Canva, Figma (UI/UX design)

## ACHIEVEMENTS

- Mastered a diverse range of algorithmic concepts through the resolution of 220+ problems across platforms like LeetCode and Codeforces, increasing individual efficiency by streamlining solution approaches within competitive time frames. [↗](#)
- Achieved 99.4 percentile in JEE Mains 2023, ranking among top 0.6% of 1.2M+ candidates
- Solved 220+ coding challenges across LeetCode, CodeChef, and Codeforces, enhancing problem-solving efficiency by 35%
- Secured **Global Rank 75** in Codeforces Starters 116 Div 4 (Jan 2024), outperforming 15,000+ global participants

## PROJECTS

**Pet Care Android Application** [↗](#)

**Jun 2023 – Aug 2023**

- Developed a **full-stack** pet adoption platform in a team of 4, serving **100+ active user trials**; integrated features like pet profiles, adoption forms, and an accessories marketplace, achieving 95% user satisfaction
- Implemented robust error handling and logging with custom exception classes, **reducing bug resolution time by 40%** and boosting system reliability by 30% during high-traffic testing
- Architected a scalable Firebase backend with real-time database and cloud functions, efficiently handling 50+ concurrent users with zero downtime
- Technologies:** Kotlin (UI/logic), Firebase (auth/storage), XML (layouts)

**A-RunChess Online Gaming Platform** [↗](#)

**Sep 2024 – Dec 2024**

- Built a real-time chess platform supporting **10+ hours of gaming sessions**, achieving latency below 50ms by optimizing WebSocket communication for 20+ simultaneous players
- Added spectator mode with live game replay, enabling users to analyze moves in real-time, increasing engagement by 25% during beta testing
- Achieved **99% uptime** by fine-tuning Socket.io event handling and deploying on a load-balanced Node.js server with automated health checks
- Technologies:** JavaScript (client-side), EJS (templating), Express.js (server), Node.js (runtime), Socket.io (real-time)

## EXTRACURRICULAR

- Silver medalist in tug of war Inter IIIT Sports Meet 2024 among teams from 15+ IIITs.
- Attended a Personality Development Program At Twin Win International Organisation and scored above 90 % (1 year)
- Volunteer teacher, NGO Prayaas (under-privileged children)
- Collaborated with fellow developers on the security team at Asmita Meet 2023's OOC hackathon; developed innovative solutions addressing five key cybersecurity threats while enhancing overall system resilience.
- Creatives dept, Effervescence 2023, IIITA fest