



ATHMEEYA M KASHYAP

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SUMMARY

B.Tech CSE + MS Computational Natural Science student at IIIT Hyderabad with strong foundations in algorithms, data structures, and mathematical problem-solving. INMO qualifier with competitive programming experience (250+ problems on Codeforces). Proficient in C/C++, Python, JavaScript, and modern web technologies. Seeking software engineering and quantitative roles where analytical rigor and systems thinking drive impact.

EDUCATION

IIIT Hyderabad — B.Tech, Computer Science & Engineering + MS, Computational Natural Science	2024 – 2029 (Expected)
Relevant Coursework: Data Structures & Algorithms, Discrete Mathematics, Linear Algebra, Probability & Statistics, Computer Organization	
CFAL — Higher Secondary (Science, PCM)	2022 – 2024
VEMS — Secondary Education Karnataka State Board — Scored 100%	Completed 2022

TECHNICAL SKILLS

Languages: C, C++, Python, JavaScript, TypeScript, Rust, Bash/Shell

Frameworks & Libraries: React, Next.js, Node.js, FastAPI, Express.js

Databases & Infrastructure: PostgreSQL, MySQL, MongoDB, Redis, AWS, Docker, GraphQL

Developer Tools: Git, GitHub, Linux, CI/CD, REST APIs, Unit Testing

Core Competencies: Data Structures & Algorithms, System Design, Object-Oriented Programming, Competitive Programming, Mathematical Problem-Solving

ACHIEVEMENTS & AWARDS

- INMO Qualifier** — Cleared India's 3-stage Mathematical Olympiad selection (IOQM → RMO → INMO). One of the top math olympiad qualifiers nationally.
- INMOTC Selection** — Invited to the Indian National Mathematical Olympiad Training Camp at ICTS-TIFR, Bangalore. One of approximately 30 students selected from Karnataka state.
- NSEA — Top 1% in Karnataka** — Ranked in the top 1% statewide in the National Standard Examination in Astronomy conducted by IAPT.
- Competitive Programming** — Solved 250+ problems on Codeforces covering data structures, dynamic programming, graph theory, number theory, and greedy algorithms.
- SGFI National Swimming** — Represented at the School Games Federation of India (SGFI) National Level Swimming Competition.
- 100% Score — Karnataka State Board** — Achieved a perfect score in the Karnataka State Board Secondary Examination.

PROJECTS

Interactive Portfolio Website	HTML, CSS, JavaScript, Canvas API
Built a fully custom single-page application from scratch with zero dependencies. Implemented real-time HTML5 Canvas animations (starfield, neural network graph, radar sweep), physics-based custom cursor with trail, boot-sequence preloader, 3D card tilt interactions, and responsive design across all breakpoints.	

Algorithmic Problem Solving — Codeforces	C++, Python, Algorithms
Solved 250+ competitive programming problems. Focused on dynamic programming, segment trees, graph algorithms (BFS, DFS, Dijkstra), number theory (modular arithmetic, sieve), combinatorics, and greedy optimization.	

Mathematical Olympiad Preparation	Combinatorics, Number Theory, Algebra, Geometry
Systematic progression through India's olympiad pipeline (IOQM → RMO → INMO). Developed proof-writing skills and deep problem-solving intuition across all four olympiad branches.	

EXTRACURRICULAR ACTIVITIES

- **National Level Swimmer** — SGFI National Competition participant; trained competitively for multiple years.
- **Astronomy Enthusiast** — Top 1% in NSEA; active interest in astrophysics and scientific computation.