

Pramag Basantia

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EDUCATION

Indraprastha Institute of Information Technology, Delhi <i>B.Tech in Computer Science and Mathematics</i> CGPA: 8.90 (Till 2 nd semester) Ranked 2 nd in the Stream	Jul, 24 - Jul, 28
Amrita Vidyalayam, Delhi <i>CBSE, Standard 12, PCM+CS</i> Percentage : 91.8%	Apr, 22 - Jul, 23
Amrita Vidyalayam, Delhi <i>CBSE, Standard 10</i> Percentage : 94.8%	Apr, 21 - May, 22

SKILLS

Languages:	Python, C++/C, Java, SQL
Tools/Tech:	GitHub, Linux, Git, Figma, VS Code, IntelliJ IDEA, L ^A T _E X
Frameworks:	Java Swing, Maven, React, Next.js, TypeScript, Tailwind CSS
Expertise Area:	Data Structures & Algorithms, OOP, Operating Systems, Discrete Structures, Probability and Statistics, Linear Algebra, Computer Organization

PROJECTS

University ERP System Java, Swing, Maven, MySQL, TCP	Team Size: 2 Sep 25 – Nov 25
• Developed a multi-module client-server desktop application managing 500+ course enrollments. • Devised a custom TCP protocol with 25+ commands to handle secure authentication and file transfers. • Integrated a notification system with polling-based state management, enhancing UI responsiveness by 25%.	
EGOS Operating System Enhancement C, RISC-V Architecture	Team Size: 2 Oct 25 – Dec 25
• Designed a Multi-Level Feedback Queue (MLFQ) scheduler to implement dynamic process demotion. • Built kernel-level system utilities (grep, wcl) utilizing direct syscall interfaces for optimized performance. • Incorporated comprehensive process lifecycle tracking with 7 real-time metrics across interrupt handlers.	
RISC-V Assembler & Simulator Python, Computer Architecture, Assembly	Team Size: 4 Jan 25 – May 25
• Constructed a RISC-V assembler from scratch, implementing lexical parsing and binary encoding. • Built a cycle-accurate RISC-V simulator featuring 32 general-purpose registers and 64KB memory. • Formulated an automated testing framework and grading system with 20+ test cases and modular architecture.	
Project Manager React, Next.js, TypeScript, Tailwind CSS	Team Size: 1 Sept 25 – Dec 25
• Developed a task management application with real-time state management using React Context API. • Implemented dynamic sorting and filtering systems, improving workflow efficiency by 30%. • Designed an interactive statistics dashboard with circular progress visualization for tracking metrics.	

COMPETITIVE PROGRAMMING

• CodeForces: Achieved maximum rating of 1509 (Specialist) (Handle: Pramag_IITD).
• Meta Hacker Cup 2025: Achieved Global Rank 2000 (Round 2) and Rank 2444 (Round 1) among 13k+ participants.
• ICPC: Placed 56th in ICPC de-Tryst (IIT Delhi) and Rank 1281 in ICPC Online Prelims (out of 3000+ teams).
• Team Contests: Secured Rank 36 in Algozenith Prelims and Rank 96 in NIT Silchar Coding Competition.
• Intra-College: Runner-up (Rank 2) in IIITD Prosor and Armsort (Speed Solving); Rank 3 in Quant Team Competition.
• Problem Solving: Solved 1500+ problems across various platforms including LeetCode, CodeForces, and CodeChef.

POSITIONS OF RESPONSIBILITY

• Member of Foobar (IIITD Coding Club)	Nov, 25 - Present
• Member of Quant Society (IIITD)	June, 25 - Present
• Vice Head Boy & Discipline Head in High School	Jun, 22 - Jun, 24