Sudipta Singha

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About Me

I am a Master's student in Computer Science and Engineering at Jahangirnagar University. I'm passionate about Machine Learning, System Design, and Competitive Programming. I enjoy solving problems using Python, C++, and Django, and I have hands-on experience with DevOps. I also love working with Linux and have explored many different Linux distributions. I always try to learn new things and use technology to solve real-life problems.

Education

Jahangirnagar University, MSc in Computer Science & Engineering — Aug 2025 – Present

Jahangirnagar University, BSc in Computer Science & Engineering *GPA: 3.22/4.0* — Mar 2020 – Jul 2025

Experience

Technical Team Leader, NCPC, JU — Feb 2024 – Mar 2024

- Spearheaded technical operations for a national programming contest, managing a team of organizers.
- Configured and deployed contest environments, installing Ubuntu on 200+ systems for seamless operation.
- Ensured system reliability by monitoring infrastructure during the event.

Mentor, JU Programming Community — Mar 2024 – Dec 2024

- Guided 20+ junior programmers in mastering competitive programming techniques.
- Designed training sessions to enhance problem-solving and algorithmic skills.

Projects

Jahangirnagar University Medical Center Management System (JUMCMS)

- Engineered a Django-based web application to streamline medical center operations.
- Implemented role-specific features for Admins, Doctors, Patients, Lab Technicians, and Store Managers.
- Tools Used: Python, Django, sqlite3

Data Structures and Algorithms Repository

- Built a comprehensive repository of advanced data structures and algorithms.
- Tools Used: C++

Simple Chess Game

- Developed an interactive chess game using Pygame with core game logic and UI.
- Tools Used: Python, Pygame

Puddle E-Commerce

- Created a Django-based e-commerce platform for toy and goods trading, supporting secure transactions.
- Tools Used: Django, Python

Competitive Programming Solutions

- Solved 540+ problems across Codeforces (383), LightOJ (82), CSES (53), and HackerEarth (23).
- Tools Used: C, C++, Java

Technologies

Languages & Frameworks: C, C++, Java, Python, Bash, Django, Flask

Technologies: Docker, Kubernetes, Ansible, Jenkins, Github Actions, AWS