

Sudipta Singha

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About Me

Aspiring Software Engineer with a strong foundation in C/C++, Linux, data structures, algorithms, and networking. Previously worked as an R&D Engineer at BDCOM, contributing to network protocol development in C. Passionate about low-level systems, open-source software, and solving complex engineering problems.

Education

Jahangirnagar University, BSc in Computer Science & Engineering CGPA: 3.30/4.0 Mar 2020 – Jul 2025

Experience

R&D Engineer, Shanghai Baud Data Communication Co., Ltd (BDCOM) Dec 2025 – Jun 2026

- Served as a permanent full-time R&D Engineer, focusing on network protocol development and software engineering in C.

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, ensured system reliability by monitoring infrastructure during the event.

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++

TFTP server for ESP32 Freertos 

- Built a tftp server for freertos + esp32 platform.
- Tools Used: C

Raylib Tetris 

- Developed an interactive tetris game using raylib with core game logic and UI.
- Tools Used: C++, Raylib

Competitive Programming Solutions 

- Solved 600+ problems across Codeforces (383), LightOJ (82), CSES (53), Leetcode (54), HackerEarth (23).
- Tools Used: C, C++, Java

Technologies

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

Technologies: Vxworks, Freertos, Linux, Docker, Kubernetes, Jenkins, Github Actions, AWS, Azure