

# SOUVIK ROY

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## PROFESSIONAL EXPERIENCE:

### Wipro Elite Exclusive – Pre-Employment Training Program

DEC 2025 - FEB 2026

#### (Linux System Programming Domain)

Cleared the Wipro Elite Exclusive hiring process and completed domain-focused training in Linux system programming covering POSIX threads, process management, TCP/IP sockets, synchronization, file handling, C++ programming fundamentals, problem solving, and industry-level software development practices.

## SKILLS:

**Proficient Programming Languages:** C++, JAVA, HTML, CSS, JavaScript

**Operating Systems & System Programming:** Linux (POSIX threads, TCP/IP sockets, process & file handling)

**Version Control:** Git, GitHub

**Database Management :** MySQL

## EDUCATION:

- University of Engineering & Management, Kolkata, India (*B.Tech Computer Science and Engineering*) **2021 - 2025**  
**CGPA:** 8.3
- Pannalal Institution (*Higher Secondary Education-WBCHSE*) **2021**  
**Percentage:** 82%
- Bedibhawan Rabibirtha Vidyalaya (*Secondary Education-WBBSE*) **2019**  
**Percentage:** 84%

## PROJECT WORK:

### Enterprise Concurrent Signal Broadcast Framework (Linux Environment | C++17 | TCP/IP): **2026**

- Developed a multi-threaded TCP/IP server-client framework in a Linux environment using POSIX sockets, implementing secure session-based communication and real-time broadcast handling.
- Engineered thread-safe concurrency using `std::thread`, mutex synchronization, and low-level socket APIs (`socket`, `bind`, `listen`, `accept`, `recv`, `send`) on Linux.
- Implemented secure encrypted messaging, session lifecycle management, and centralized logging with file handling and process-level resource cleanup in a Linux-based system.

### MOVIETICKET MANAGEMENT SYSTEM:

**2025**

- Lead a team of 5 in creating and executing digital marketing strategies across multiple platforms, including social media, SEO, and email campaigns.
- Admin users can add or modify movie details, including show timings, pricing, and seating arrangements.
- Key Features are User Registration and Login, Movie Listing, Ticket Booking, Booking History, Admin Controls

### STUDENT REGISTRATION SYSTEM:

**2024**

- The Student Registration System is a Java-based application that utilizes JDBC to interact with a MySQL database.
- HTML/CSS is used for the front-end form, and Servlets are employed for communication between the form and the database.
- Core features include adding new students, viewing student data, updating, and deleting student records.

## PERSONAL DETAILS:

**Date of Birth:** 29-12-2002

**Languages Known:** English, Hindi, Bengali

## Subject of Interest:

Linux System Programming, Database Management System