Aranya Dutta

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Technologies

Languages: C++, C, Java, Python, JavaScript

Tools & frameworks: Git, GitHub, GitHub Actions, IntelliJ IDEA

Systems: Linux, Bash, Networking Basics

Projects

KernelTalk (C • Linux Kernel • IPC)   *github.com/thisizaro/KernelTalk* ↗

- Explored Linux kernel programming by adapting a custom kernel module to implement a terminal-based chat system, enabling communication between multiple user-space clients via a character device (/dev/kerneltalk).
- Learned and applied concepts like the producer–consumer model, circular buffer management, and blocking vs. non-blocking I/O to handle concurrent client messaging.
- Gained exposure to inter-process communication (IPC) and device driver development using C.
- Tools Used: C

Experience

Open Source Contributor   *Remote June 2024 –*
Processing Foundation – Processing 4   *Present*

- Contributed small bug fixes to Processing 4, a Java-based creative coding environment widely used in education and the arts.
- Gained experience with open-source collaboration workflows including issue tracking, branching, pull requests, and peer review on GitHub.
- Tools Used: Java, GitHub, Gradle

Competitive Programmer & Core Member   *Bhubaneswar, India Dec*
KodeWreck (Competitive Coding Club)   *2023 – Present*

- Actively solve problems on platforms like Codeforces and GeeksforGeeks, continuously improving algorithmic thinking and speed.
- Current Codeforces Rating: **1234 (Pupil)** — View Profile ↗
- Solved 450+ problems on GeeksforGeeks — Profile Link ↗
- Improved Codeforces rating from 800 → 1234 (Pupil) within 6 months through consistent practice and peer learning.

Achievements

- Secured **2nd Runner-up** at ICDCIT Hackathon 2024 among 100+ participating teams.

Education

Kalinga Institute of Industrial Technology   *August 2023 – May 2027*
B.Tech in Computer Science

- GPA: 7.8/10.0
- **Coursework:** Data Structures and Algorithms, Operating Systems
- **Self-Learning & Skills:** Computer Networks (self-study), Networking Basics (Cisco Networking Academy), Japanese (JLPT N5 – Beginner)