Harsh kumar jha

Linkedin: https://www.linkedin.com/in/harshkrjha567/   Email: Harshkrjha567@gmail.com

Github: https://github.com/harshguarav   Mobile: +91-8810381930

LeetCode: https://leetcode.com/u/harshajha89/   CodeForces: https://codeforces.com/profile/harshkrjha567

SKILLS

Languages: C++, JavaScript, C, PHP, JAVA

Tools/Platforms: MongoDB, MySQL, Github, AWS, Vercel, Netlify

Framework: React.js, Node.js, Express.js, MongoDB, MySql.

Testing Tools: Postman

Performance Highlights: API Response optimization, UI Load Reduction, Scalable Deployment

Soft Skills: Problem-Solving, Team Player, Time-Management, Debugging.

TRAINING

BoardInfinity(EdTech Company)   Jun'23 - Jul'23
Training in DSA Using CPP (remote)
- Mastered key data structures: **linked lists, stacks, queues, trees, BSTs, heaps, and hashmaps.**
- Strengthened foundational skills for **scalable software design** and r**eal-world problem resolution**.

PROJECTS

Bingooo: Real-time Multiplayer(Bingo Game) [Github]   Oct' 24 - Nov'-24
- Engineered a scalable bingo game platform supporting 100+ concurrent players, achieving 40% faster game-state synchronization by optimizing communication protocols .
- Implemented and deployed load-balanced AWS EC2 instance, ensuring 99.9% uptime and maintaining the capacity to handle 500+ requests per second.
- Reduced latency by 40% through advanced WebSocket message batching and enhanced client-side.
- **Tech**: Next.js, Typescript, WebSocket, AWS EC2, Prisma

CPU Scheduling Simulator [Github]   Oct' 24 - Nov'-24
- Implemented and optimized multiple CPU scheduling algorithms including FCFS, Round Robin, SPN, SRT, HRRN, Feedback, and Aging.
- Developed a modular parser and simulation engine using STL container and priority queues to support custom input formats.
- Built a configurable CLI tool to generate timeline visualization, execution traces, and performance metrics (e.g., turnaround time, waiting time, throughput).
- **Tech**: C++, STL, CLI, File I/O, Operating System Concepts

MiniLink- URL Shortener [Github]   Apr'24- May'24
- Revamped an existing URL shortener service, generating 1,200+ unique links in the first month with 99.7% system reliability.
- Accelerated server response times by 30% through targeted API refactoring and performance optimization.
- Ensured 99% redirection accuracy by implementing robust error-handling middleware and automated link validation.
- **Tech:** React.js, Node.js, MongoDB, Express.js

CERTIFICATES

- Cloud computing by NPTEL.
- Generative AI with LLM by Amazon Web Services.
- OOPS(Object oriented programming) in Java by Board Infinity.
- Server-side Javascript in Node.js by NIIT.

ACHIEVEMENTS

- Solved 250 + **LeetCode** problems with a global rank of <500,000.
- Built and deployed live projects with real users (e.g., bingooo.site)
- HackerRank Badges : C++ 3 stars
- Consistently ranked in the top 10% in university coding competitions.

EDUCATION

Lovely Professional University (BTech- Computer Science & Engineering)   Aug'2022-present
CGPA-7.9/10