Mohd Intakhab Alam

Space, Planetary & Astronomical Sciences & Engineering

Indian Institute of Technology Kanpur

✉ intakhab25@iitk.ac.in
in intakhab08 intakhab1
📞 (+91) 8448138448 ❂ Portfolio

Examination	University/Board	Institute	Year	CPI/%
Post Graduation	IIT Kanpur	IIT Kanpur	2025-27	Awaited
Graduation	GGSIPU	DITE	2020-24	8.96
Intermediate/+2	CBSE	Handard Public School	2018-20	80.8
Matriculation	CBSE	Amrita Public School	2017	9.4

Competitive Achievements

- Secured AIR : **7400** in GATE 2025 **Computer Science & Information Technology/IT** among 1.70 lakh candidates.
- Achieved a max contest rating of **1448** on leetcode and reached Newbie level (max rating: **809**) on Codeforces platform.
- Rated as **1014** on codechef coding platform .
- Recognized as the Star Performer at the Oasis Code Hackathon for outstanding problem-solving and innovative solutions.

Professional Experience

ISRO-Indian Space Research Organisation — Feb 2025 - Mar 2025

Computer and Information, Intern — Bangalore

- Migrated a live **Java EE** application from **Struts 2.5.x/Java 8** to **Struts 7/Java 17**, ensuring compatibility and speed.
- Upgraded **Apache Tomcat** from version 8 to 10, optimizing server performance and reducing response time by **25%**.
- Enhanced build automation by upgrading **Apache Ant** from **1.1** to **1.4**, leading to **40%** reduction in deployment time.
- Resolved **200+** critical compatibility issues while migration, ensuring seamless transition with absolutely zero downtime.
- Refactored **5,000+** lines of **JSP** and **Servlet** code to align with Struts 7 best practices, reducing legacy dependencies.

Maruti Suzuki India Limited — May 2022 - Jun 2022

Project Intern — Gurugram

- Collaborated with a cross-functional team to conceptualize, design, and implement the **3-Point Verification System**
- Centralized **1,000+** WIS records in MongoDB, achieving a **90%** reduction in paperwork while improving the traceability
- Developed modular and reusable React components which significantly enhances the UI interface and user experience.
- Set up API endpoints for smooth data transmission between frontend and backend, ensuring data integrity and security
- Collaborated with QA team to identify and address bugs, resulted in **25%** decrease in post-release bugs by proactive fixes.

Key Projects

Multi Threaded Proxy Web Server with LRU Cache | *C++* — Github

- Implemented **LRU** cache via linked list, resulting **31x** speedup **(715ms to 23ms)** for cached output under concurrency.
- Supported **400** simultaneous connections via **semaphore** controlled threads, sustaining $< 1\%$ error rate at peak traffic.
- Validated **99.8%** cache hit ratio and elevated throughput by **454x (3023 vs 6.6 req/sec)** maximizing overall efficiency.
- Reduced latency **150.18ms to 0.33ms (455x)** boost under load, zero failed request, drastically enhancing performance.

Skill Nation | *ReactJS, MongoDB, Tailwind CSS, NodeJS, ExpressJS, Cloudinary* — Visit| Github

- Skill Nation is an **Ed-Tech** platform that enable users to create, sell, consume, and purchase digital educational content.
- Implemented **jwt** based authentication using **bcrypt** encryption, securing all user session, with role-based access control.
- Integrated **Razorpay** enabling secure course purchases with **95%** payment methods, optimizing transaction processing.
- Improved API performance by testing and monitoring with Postman, documenting each endpoints for future scalability.

Technical Skills

Programming Languages: C/C++
Concepts: Data Structures and Algorithms, Object Oriented Programming, REST API, Agile, MVC
Web Development: Html, Css, Javascript, ReactJS, NodeJS, ExpressJS, Tailwind CSS, MongoDB
Development Tools: Git/Github, GitLab, Vercel, Render, VS Code, Postman, Android Studio