

Badal Kumar

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SKILLS

- **Languages:** C++, JavaScript, Java, Python
- **Frontend Technologies:** HTML, CSS, Bootstrap, React
- **Backend Technologies:** TypeScript, Node.js, Express
- **Databases:** MySQL, MongoDB
- **Soft Skills:** Logical reasoning, Collaborative Teamwork, Project Management, Resilience
- **Tools & Version control:** Git, GitHub

PROJECTS & EXPERIENCE

- **Study Buddy – AI-Powered MERN & Python Web App** Nov 2024 – Present
Engineered an AI-powered chatbot that boosted user engagement by **30%** through personalized learning recommendations.
Implemented mock interviews, job listings, and coding challenges, enhancing employability by **40%**.
Refactored database queries using MongoDB's aggregation framework, improving platform responsiveness by **45%**.
Designed a real-time discussion forum that facilitated collaboration among **500+** students, increasing active participation by **35%**.
- **Community Development Project** Nov 2024 - Present
Built a MERN Stack web platform that enhanced community engagement by **50%**.
Integrated real-time updates and authentication features, reducing user drop-off rates by **20%**.
Incorporated an AI chatbot that improved resource accessibility, increasing user satisfaction by **35%**.
Enhanced system responsiveness by **40%** through WebSocket-powered real-time collaboration.
- **Summer Project: Mastering Data Structures and Algorithms – LPU** Jun 2024 – Aug 2024
Mastered arrays, linked lists, stacks, queues, trees, graphs, and innovative programming through intensive decision making.
Implemented space-efficient algorithms, cutting execution time by **35%**.
Designed an interactive DSA visualization tool used by **200+** students to simplify complex algorithms.
Solved **100+** LeetCode problems, sharpening critical thinking speed by **30%**.

CERTIFICATES

- DevFest Jalandhar 2024 by Google Developer Groups Jalandhar. Nov 2024
- CodeFest 2.0 2024 by InnovXus Sep 2024
- Mastering Data Structure and Algorithm by LPU Jun 2024 – Aug 2024
- Cloud Computing by NPTEL(12 Week Course) Jul 2024
- HTML, CSS, and JavaScript for Web Developers May 2024
- Server-side JavaScript with Node.js by NIIT Apr 2024

ACHIEVEMENTS

- **Achieved Global Rank 1589th** Dec 2024
Among 21k+ participants in Leetcode Weekly Contest 428.
- **Secured 1st position in DevFest by Google Developer Group** Nov 2024
Secured 1st rank in the Hackathon.
- **Conquered 1st position in Code fest 2.0** Sep 2024
Secured 1st position in the hackathon organized by InnovXus.
- **Participant in Web-A-Thon by Arena**
Achieved 5th position among 100+ teams.

EDUCATION

- **Lovely Professional University** Punjab, India
Bachelor of Technology - Computer Science and Engineering; CGPA: 7.4 Aug 2022-Present
- **J N College** Madhubani, Bihar
Intermediate; Percentage: 77.8% Jun 2020 – Apr 2022
- **St Xaviers Jr./Sr School** Muzaffarpur, Bihar
Matriculation; Percentage: 78.9% Mar 2017 – Apr 2020