

# LAKSHAY

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## OBJECTIVE

Aspiring **Software Development Engineer** with a focus on **Web** and **Backend Development**. Passionate about building scalable systems and interactive user experiences.

## EDUCATION

<b>Indian Institute of Information Technology, Manipur</b>	Manipur, India
<i>Bachelor of Technology in Computer Science and Engineering; CGPA: 7.43(upto sem 7)</i>	2022 – 2026
<b>D.A.V. Public School, Panipat</b>	Panipat, India
<i>Class XII — CBSE; Percentage: 92.6%</i>	2021
<b>D.A.V. Public School, Panipat</b>	Panipat, India
<i>Class X — CBSE; Percentage: 92.8%</i>	2019

## EXPERIENCE

<b>Intern Developer</b> <i>MBSGames</i>	Remote
• Developed core gameplay mechanics for 'Tiny Toads,' an educational mobile game, utilizing <b>Unity</b> and <b>C#</b> to enhance user engagement and learning outcomes. • Engineered interactive learning modules (alphabet drawing, number counting) and optimized performance, resulting in a smoother user experience on low-end devices.	<i>May 2025 – July 2025</i>

## PROJECTS

<b>High-Performance Trading Platform (CLI)</b>   <i>C++, Boost.Beast, WebSocket, Deribit APIs</i>	Apr 2025
• Architected a low-latency HFT simulation engine in C++, capable of processing real-time market data via Deribit APIs with <b>sub-millisecond latency</b> .	
• Leveraged Boost.Beast and Boost.Asio for asynchronous network communication, ensuring low-latency request handling and real-time market data streaming.	
<b>Course Directory</b> — <i>Live Demo</i> — <i>MongoDB, Express.js, ejjs, Node.js</i>	Jan 2025 – Feb 2025
• Built a responsive full-stack course management platform with RESTful APIs, supporting 500+ documents and role-based access for admins and professors.	
• Applied MVC design pattern with clear separation of concerns, ensuring maintainable and scalable architecture.	
<b>Multi-User Chat Application</b>   <i>Java, Swing, MySQL, JDBC</i>	Dec 2024 – Jan 2025
• Engineered a multi-threaded Client-Server architecture using Java Sockets, enabling concurrent real-time communication for multiple simultaneous users.	
• Designed dual-mode interface (Swing GUI and CLI) with MySQL backend using JDBC for user authentication (encrypted passwords), chat room management, and persistent message history.	
<b>Network Scheduling Algorithm Visualizer</b>   <i>C++, Qt Framework</i>	Aug 2024 – Oct 2024
• Designed and implemented an interactive visualization tool for 5 network scheduling algorithms.	
• Optimized rendering algorithms in <b>Qt</b> , achieving a <b>40% reduction in execution time</b> and supporting real-time visualization of complex scheduling logic.	

## TECHNICAL SKILLS

<b>Languages:</b> C/C++, JavaScript(ES6+), Rust, Python, Java, C#, Go
<b>Frameworks &amp; Libraries:</b> React.js, Node.js, Express.js, Next.js, Bootstrap, Tailwind CSS, Redux, Redis
<b>Databases:</b> MySQL, PostgreSQL, SQL/NoSQL Design
<b>Developer Tools:</b> Git, GitHub, VS Code, npm, Postman, Linux/Unix, Agile/Scrum
<b>Cloud &amp; Deployment:</b> Render, Docker (basic), AWS (basic)

## RELEVANT COURSEWORK

<b>Core CS:</b> Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Computer Networks, Database Management Systems, Compiler Design
<b>AI &amp; ML:</b> Artificial Intelligence, Machine Learning, Natural Language Processing, Information Retrieval
<b>Systems &amp; Security:</b> Cloud Computing, Cyber Security, Cryptography, Internet of Things (IoT)

## CERTIFICATIONS & LEADERSHIP

<b>Web Development Bootcamp</b> - Udemy (Mar 2024) — 65-hour full-stack development training.
<b>Team Lead - Smart India Hackathon 2024</b> (Aug 2024) — Led 6-person development team using Agile/Scrum.
<b>Problem Solving</b> — Solved 500+ coding problems on HackerRank and LeetCode.
<b>Ethical Hacking and Penetration Testing</b> - C-DAC NOIDA (Dec 2024 – Jan 2025) — Completed online training & virtual internship under Cyber Gyan Project.