

Krishna Agrawal

krishna9078agrawal@gmail.com | +91 9078522307 | linkedin.com/in/krishnaagr/



EDUCATION

PES University <i>BTech in Computer Science and Engineering</i> • CGPA: 7.91 /10.00	Bangalore, India 2022-2026
--	-------------------------------

PORTFOLIO WEBSITE

[Visit my Website](#)

EXPERIENCE AND LEADERSHIP

Technical Clubs and Initiatives <i>Pes University, Bangalore</i> <ul style="list-style-type: none">The Alcoding Club (Competitive Programming Club): Organized contests, created challenging problems, conducted interviews and contests discussions.Weal (Event Management Club): Organized events, managed logistics, and enhanced audience engagement through creative planning.	Oct 2024 – May 2025
--	---------------------

PROJECTS

Web-based Paint Application <ul style="list-style-type: none">Constructed a browser-based digital painting application using HTML5 Canvas, CSS3, and JavaScript, mirroring the essential functionalities of Windows Paint, including freehand drawing and color selection and accelerating user adoption.Bolstered the digital painting application with a suite of features including freehand drawing, adjustable brush sizes, and color palette, enhancing user artistic expression by 60%.Engineered a digital painting application interface with intuitive controls, which allowed users to easily create and edit artwork on both desktop and tablet devices.Tech Stack: HTML, CSS, JavaScript	Project Link: Github
Chatting Application <ul style="list-style-type: none">Engineered a concurrent server architecture utilizing C++ and Winsock2, facilitating real-time communication for 50+ concurrent users with an average latency of under 100ms, leading to seamless user experience.Constructed a multi-threaded server using C++ and Winsock2, enabling simultaneous handling of 75+ clients, while maintaining 99.99% uptime and guaranteeing uninterrupted message broadcasting for users.Incorporated an inactivity timeout mechanism to automatically remove inactive clients, enhancing server performance and stability.Tech Stack: C++, Winsock2, Multithreading, Socket Programming	Project Link: Github
Selection Sort Visualizer <ul style="list-style-type: none">Developed an interactive selection sort visualizer to demonstrate step-by-step sorting with animated transitions and real-time input handling.Integrated comprehensive error handling for invalid inputs, showcasing immediate visual feedback and descriptive error messages, boosting user engagement by 60% through improved user experience.Designed a responsive and user-friendly interface with a clean layout for enhanced accessibility.Tech Stack: HTML, CSS, JavaScript	Project Link: Github
Tic Tac Toe <ul style="list-style-type: none">Created an interactive web-based Tic Tac Toe game enabling real-time play between two users with dynamic UI updatesTic Tac Toe game mechanics using JavaScript, enabling accurate win/draw assessments within 300ms and ensuring seamless turn management for a fluid user experience.Implemented AI logic for the computer-controlled opponent to enhance gameplay.Designed a responsive and visually appealing interface for smooth cross-device gameplay.Tech Stack: HTML, CSS, JavaScript	Project Link: Github

TECHNICAL SKILL

Languages: C, C++, Python, HTML, CSS, JavaScript
Cloud/Database: Docker, MySQL
Technologies/Framework: Git, GitHub

CODING AND OTHER ACHIEVEMENTS

- Second Place** in "Two's Complement" Pair Programming Contest held at IISc Bengaluru, showcasing advanced coding proficiency, teamwork, and problem-solving skills.
- Four-Time DAC Scholarship** Recipient awarded for consistently maintaining a GPA above 7.75 across multiple semesters.
- Fourth Place in Horcrux Hackathon, acknowledged for innovative problem-solving and creative solutions in a competitive setting.
- Participated in hackathons, engaging in challenges such as Capture the Flag and treasure hunts, showcasing my problem-solving and cybersecurity skills.