Prasanga Aryal

Lexington, Kentucky | prasangaaryal58@gmail.com | 859-402-3408 | https://paryal58.github.io/

PROJECTS

Red|Black Game- https://paryal58.github.io/deck.html

- Developed a web-based card game using HTML, CSS, and JavaScript, integrating external APIs for dynamic deck management (shuffling, drawing).
- Designed a responsive and visually engaging UI using Semantic UI, ensuring seamless navigation across game modes, statistics, history, and cheats.
- Implemented probability calculation logic with Math.js, allowing players to analyze drawing probabilities when cheats are enabled.

BlackJack Game- https://paryal58.github.io/Blackjack/

- Built an interactive Blackjack game using React and JavaScript, incorporating external APIs for card management and enforcing standard game rules.
- Implemented a real-time counter displaying remaining face cards, aces, and player scores, enhancing strategic decision-making.
- Developed with modular and reusable components, improving maintainability and scalability for future expansions.

Chat Program - https://github.com/paryal58/chat_program

- Created a multithreaded chat application in Python, enabling simultaneous real-time messaging between two users.
- Utilized TCP/IP sockets to establish reliable and secure communication channels across different ports.

Personal Website - https://paryal58.github.io/

- Designed and developed a multi-section personal website using HTML, and CSS to showcase projects and skills.
- Integrated custom animations and interactive UI elements (hover effects, transitions) for a dynamic user experience.

WORK EXPERIENCE

MathExcel Undergraduate Teaching Assistant – University of Kentucky　　　　　January 2024 – April 2024

- Collaborated with instructors to organize an engaging and effective learning environment.
- Provided individualized support, helping students grasp complex mathematical concepts.
- Facilitated interactive problem-solving sessions, improving student engagement and critical thinking.

EDUCATION

University of Kentucky – Lexington, Kentucky　　　　　Aug 2023- Dec 2025

Bachelor of Science in Computer Science

Cumulative GPA: 3.94

- Relevant Courses: Artificial Intelligence, Computer Networking, Deep Learning, Generative AI, Web Programming, Theory of Computing, Algorithm Design and Analysis, Systems Programming, Graphics and Multimedia, Discrete Mathematics

Bluegrass Community and Technical College – Lexington, Kentucky　　　　　Jan 2022- May 2023

Associate of Science

Cumulative GPA: 4.0

- Organizations/Honors: Phi Theta Kappa Honor Society, Science to Success Scholar, Dean's List (Spring 2022, Fall 2022, Spring 2023)

SKILLS

Languages: Nepali, Hindi, English

Programming Languages: C, C++, Python, Java, JavaScript, Prolog, PHP, R, MATLAB

Web Development: React, HTML, CSS, JavaScript, JQuery, JSON

Tools & Frameworks: Git, Linux, Bash, Tkinter

Soft Skills: Communication, Teamwork, Problem-Solving