

Rishi Badal

Dallas, TX | 945-276-4438 | dev.rishibadal@gmail.com | US Citizen
linkedin.com/in/rishi-badal-a632b62bb | github.com/rishibadal726

SUMMARY

Driven Computer Science sophomore at the University of Texas at Dallas with a strong foundation in software development, algorithms, and problem-solving. Demonstrates excellent teamwork and collaboration skills through academic and project-based experiences. Committed to continuous learning, innovation, and applying technical knowledge to develop efficient, real-world software solutions.

EDUCATION

The University of Texas at Dallas, Richardson, TX

Aug 2025 - Present

Bachelor of Science, Computer Science

- Coursework: Programming Fundamentals, Object-Oriented Programming, Discrete Mathematics

TECHNICAL SKILLS

Programming Languages: Python, C++, JavaScript, HTML, CSS

Frameworks & Tools: React.js, Node.js, PyGame, Git, GitHub

Databases: Firebase

Operating Systems: MacOS, Windows

PROFESSIONAL EXPERIENCE

NASA Hunch Program, Houston, TX

Nov 2023 – Apr 2024

Software Developer & UI/UX Designer

- Developed an interactive user interface using React.js, JavaScript, and HTML/CSS, ensuring a responsive and user-friendly design
- Designed and refined UI/UX layouts based on user feedback, improving usability and consistency across components
- Collaborated with a 4-member team to design an environmental sensor subsystem for NASA Hunch's competition
- Earned National Software Finalist recognition after competing in multiple rounds against 30+ teams, recognized for innovative design and technical execution, where NASA may integrate our project for future development

PROJECTS

Lunar Lander

Mar 2026 – May 2026

- Implemented a Deep Q-Network agent with a 7-member team to execute autonomous spacecraft landings in OpenAI Gymnasium's LunarLander-V3 environment
- Led model training and evaluation across 2,000 back-to-back episodes by logging total rewards and saving model checkpoints every 250 episodes to ensure stable progress
- Measured performance trends and resolved crash penalties using Matplotlib visualization graphs and syncing target networks every 500 steps to boost scores past the initial -200 baseline

AI Movie Suggester Mobile App

Aug 2025 – Dec 2025

- Developed responsive frontend components for the login and home pages using JavaScript and React.js, implementing dynamic content and user interaction
- Implemented Firebase backend services (Authentication, Realtime Database) for secure user management and data storage.
- Integrated the AI-powered movie recommendation API, handling data fetching and error management for a seamless user experience
- Coordinated with a 3-member team to design wireframes and a tech stack for the app on Figma

CAMPUS INVOLVEMENT

Google Student Developer Club, *Developer*

Jan 2026 – May 2026

Artificial Intelligence Society, *Member*

Aug 2025 – Dec 2025