

About Rishik:

Rishik Reddy is a dedicated and aspiring Software Developer with a strong interest in developing innovative web and mobile applications using modern libraries and frameworks. Currently in the fourth year of a Bachelor's degree in Computer Science at SR University, he is deeply engaged in exploring emerging technologies and trends within the software industry. His technical experience includes working on projects involving Python, Java, React, Next.js, RESTful APIs, artificial intelligence, SQL, and MongoDB. Motivated by a passion for problem-solving and continuous learning, he is committed to expanding his skills and contributing meaningfully to the field of software development.

Rishik's Education:

SR University, CGPA: 9.27.

Location: Warangal, Telangana

Undergraduate Degree: Bachelor of Technology.

Branch: Computer Science.

BrachOctober 2022 – Present

Rishik Skills:

Programming Skills: Python, Java, C, JavaScript, HTML, CSS

Frameworks & Libraries: Express.js, Next.js, React.js, Redux, Django, React Native

Databases & Cloud: MySQL (SQL), MongoDB (NoSQL), AWS

Developer Tools: Git, GitHub, VS Code, PyCharm, Google Colab, Postman

Core Concepts: Data Structures, Computer Networks, Operating Systems, Artificial Intelligence

Soft Skills: Problem-Solving, Time Management, Work Ethics, Project Management, Team Management

Projects Developed By Rishik:

SRU Coding Club Website

Next.js, React.js, Firebase, JavaScript, Generative AI

- Developed a full-stack web application with real-time authentication (Sign In, Sign Out, Forgot Password), supporting **10,000+ concurrent users** and featuring 7+ menu sections for SRU students.
- Optimized Firestore using data aggregation and browser caching, reducing reads/writes from **50K to 1K daily**; launched with zero budget and reached **500+ users in the first week** while maintaining high performance at low cost.
- Created **Ciao AI** chatbot handling **3,000+ daily queries** and developed 9 APIs for Firestore communication; integrated an SMTP-powered contact form to automatically route queries to concerned authorities.
- Built an admin dashboard for managing events, quizzes, learning resources, and user points with complete administrative control.

Web Application for a Resort

Next.js, React.js, HTML, CSS, JavaScript

- Designed and implemented a fully responsive, user-centric web application for a luxury resort featuring **4+ room types**, **2 activities**, and a special event section to boost customer engagement.
- Created a mobile-optimized interface with Maldives-themed visuals, smooth navigation, integrated customer support, and social media links to enhance user satisfaction and accessibility.

Handwritten Digit Image Recognition

Python, Deep Learning, Computer Vision

- Developed a handwritten digit recognition system using **Convolutional Neural Networks (CNNs)** on the MNIST dataset (60,000 grayscale images) for high-accuracy classification.
- Implemented a CNN with ReLU activation, including 2 Conv2D layers (filters: 16 & 8) and 2x2 pooling layers to efficiently capture image features.
- Achieved **98.89% accuracy** with only **1.11% error rate** over 500 epochs (batch size: 200), ensuring strong generalization for real-world digit classification tasks.

Scholar's Companion

C, Data Structures and Algorithms

- Built a multi-functional academic utility that estimates internal marks using user input and standard college evaluation formulas, enabling accurate performance forecasting.
- Designed an attendance analysis system that calculates required classes per subject to maintain at least **75% attendance**, helping students comply with university policies.
- Engineered a predictive scoring algorithm to determine required second midterm scores to meet semester targets using a **weighted rule (75% highest, 25% lowest)** for strategic exam preparation.

20+ more projects are created by Rishik

Personal Website

<https://www.rishik.tech/>

Currently Working On:

- AI Agents
- Block Chain