

B. Srinivasa Ranganath

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Education

VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad <i>M.Tech in Computer Networks and Information Security</i>	Nov 2025 – Present
Institute of Aeronautical Engineering, Hyderabad <i>B.Tech in Computer Science and Engineering</i>	Nov 2020 – Jun 2024

Experience

BookNest - Online Bookstore <i>Full Stack Development (Freelance Project)</i>	Mar 2025 – Aug 2025
<ul style="list-style-type: none">Developed BookNest, a full-featured online bookstore enabling users to browse, search, purchase, and manage books effortlessly.Implemented secure authentication using Google OAuth 2.0 and session-based login for a smooth experience.Designed the backend following MVC architecture for modularity and scalability.Built RESTful APIs handling users, products, carts, and orders with real-time updates.Integrated Razorpay for seamless payment processing.Added a custom logger middleware for tracking user activity, API performance, and errors.Technologies: Node.js, Express.js, MongoDB, REST API, Google OAuth, RazorpayGitHub: Repository — Live: Preview	

Projects

GitHub User Finder	Jan 2025 – Feb 2025
<ul style="list-style-type: none">Built a web application to search GitHub profiles and view avatar, bio, followers, and repositories.Technologies: JavaScript, GitHub APIGitHub: Repository — Live: Preview	
Weather Application	Feb 2025 – Mar 2025
<ul style="list-style-type: none">Created a responsive web application displaying real-time weather based on user-input locations.Integrated OpenWeatherMap API for temperature, humidity, and wind details.Technologies: JavaScript, OpenWeatherMap APIGitHub: Repository — Live: Preview	
Reinforcement Learning-Based Hyperspectral Image Classification	Nov 2023 – Mar 2024
<ul style="list-style-type: none">Enhanced binary entropy-based image classification for spectral data analysis.Leveraged reinforcement learning for improved accuracy in remote sensing.Technologies: Python, TensorFlow, NumPy, Matplotlib, SciKit-LearnPaper: IJFMR Publication — GitHub: Repository	
Discord Music Bot for Medical Therapy	Dec 2022 – Mar 2023
<ul style="list-style-type: none">Integrated Discord and YouTube APIs for seamless therapeutic music streaming.Focused on improving patient well-being through music therapy.Technologies: React.js, Node.js, Discord.js, YouTube API, JavaScriptGitHub: Repository	

Technical Skills

Programming	Python	Tools	GitHub, Docker, VS Code, Postman
Development	HTML, CSS, Tailwind CSS, JavaScript, Node.js, Express.js, React.js	Soft Skills	Problem-Solving, Team Collaboration, Time Management, Communication
Databases	SQL, MongoDB		

Trainings and Certifications

Coding Ninjas <i>Full Stack Development</i>	Sep 2024 – Jun 2025
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Achievements

- Recognized by Dr. L.V. Narasimha Prasad for a therapeutic music project at the METE Project Expo (Feb 2023) for its positive impact on patient well-being.