

SRI VENKATESHA MANI

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Education

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| University of Colorado Boulder , <i>MS in Computer Science</i> | Aug 2023 – May 2025 |
| GPA: 3.91/4.0 — Relevant courses: Foundations of Software Engineering, Natural Language Processing, Machine Learning, Neural Networks and Deep Learning, Data Mining, Database Systems, User Centered Design & Development. | |
| SRM Institute of Science & Technology , <i>B.TECH In Computer Science & Engineering</i> | Jun 2019 – May 2023 |
| GPA: 9.29/10.0 — Relevant courses: Data Structures & Algorithms, Object Oriented Design & Programming, Network Design & Management, Computer architecture, Operating systems, Distributed Systems, Cyber Security, Mathematics | |

Technical Skills

Programming Languages: Python, Ruby, Java, C/C++, Go, JavaScript, TypeScript, PHP, HTML, CSS.
Frameworks & Technologies: Flask, Django, Rails, Node, Express, Next, React, REST APIs, Linux/Unix
Databases & ETL: SQL(MySQL, PostgreSQL, Oracle, Snowflake), NoSQL(MongoDB, Redis), XML, JSON.
DevOps: AWS, Azure, GCP, Git, GitHub, CI/CD, Kubernetes, Docker, Terraform, Kafka, Ansible, Agile, Jenkins.
Observability & Monitoring: Grafana, Prometheus, Splunk, Datadog, Elasticsearch, CloudWatch, Alerting
Data Analysis & ML: TensorFlow, Keras, Pandas, PyTorch, scikit-learn, PowerBI, RAG, LLM, LangChain, Gen-AI.

Work Experience

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| Full-Stack Developer , <i>Rattlesnake Ramble Charity Trail Race</i> <i>Boulder, CO</i> | Aug 2025 – Present |
| • Improved race registration reliability by preventing unpaid sign-ups and adding automatic payment validation with email notifications, eliminating manual reconciliation errors by 100% through the Ruby on Rails MVC architecture. | |
| • Enhanced the admin dashboard by implementing sortable entrant views, automatic bib assignment, and on-demand check-in sheet generation using PostgreSQL-backed data models for over 100 race participants. | |
| • Strengthened system maintainability by cleaning up PayPal integration, adding Venmo payment support, and upgrading the Rails environment for the 2026 season. | |
| Software Development Intern , <i>Biocollate</i> <i>Boulder, CO</i> | Aug 2024 – May 2025 |
| • Designed and debugged a React-based frontend for login, authentication, and project creation pages, enabling secure user access and seamless experiment management through REST API integration, improving user experience by 70%. | |
| • Developed high-performance backend web services using Go and PostgreSQL, improving system efficiency and reducing SBOL processing time by 20% while supporting integration with hardware data pipelines. | |
| • Implemented a Flask-based web server for SBOL metadata management and JSON data streaming, enhancing traceability by 50%, improving project reproducibility by 40% and cutting manual metadata entry time by 60%. | |
| Graduate Teaching Assistant , <i>University of Colorado Boulder</i> <i>Boulder, CO</i> | Aug 2024 – May 2025 |
| • Authored and graded the coursework for CSCI 1300: Computational Problem Solving, mentoring over 200 students in C++11, C++14, C++23 programming concepts during office hours, increasing assignment completion rates by 40%. | |
| • Ensured academic integrity for over 500 students by maintaining a seamless, violation-free examination process. | |
| Software Development Intern , <i>ITJobx.com</i> <i>Remote</i> | May 2024 – Aug 2024 |
| • Developed user-friendly web components, enhancing UX and navigation based on 200+ feedback responses. | |
| • Removed 1200+ fake accounts in 2 months by building PHP-based bot detection logic using behavior pattern analysis. | |
| • Deployed reCAPTCHA-based validation, reducing monthly spam entries by 150+ through automated filtering. | |

Projects

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| RecipeRealm Web Application - <i>GitHub</i> <i>Website</i> | Jan 2024 – May 2024 |
| • Built a full stack recipe sharing app using MERN stack, supporting 500+ recipes with JWT auth and CRUD operations. | |
| • Integrated SDLC principles, Docker, GCP and Grafana tested via Postman and attained sub-300ms API response time. | |
| AI Generated Text Detection using NLP - <i>GitHub</i> | Aug 2023 – Dec 2023 |
| • Built an AI text classifier using BERT & DistilBERT, achieving 85% accuracy in detecting the AI generated text. | |
| • Improved data preprocessing with Pandas & Scikit-learn, cutting 60+ hours per project runtime in Kaggle Notebooks. | |
| Deep Learning-Based Sentiment Analysis for Stock Prediction - <i>GitHub</i> | Jan 2023 – May 2023 |
| • Engineered an advanced stock price prediction model using machine learning techniques and sentiment analysis. | |
| • Constructed BiLSTM, 1D CNN, and BiGRU models in Python, utilizing TensorFlow and Keras to enhance stock price prediction accuracy by analyzing sentiment data from 50,000 news articles. | |