

# SRI VENKATESHA MANI

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## Education

**University of Colorado Boulder, *MS in Computer Science*** **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, *B.TECH In Computer Science & Engineering*** **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

**Full-Stack Developer, *Rattlesnake Ramble Charity Trail Race* | Boulder, CO** **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, *Biocollate* | Boulder, CO** **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, *University of Colorado Boulder* | Boulder, CO** **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, *ITJobxs.com* | Remote** **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

**RecipeRealm Web Application - *GitHub* | *Website*** **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 - *GitHub*** **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 - *GitHub*** **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.