

Satya Sai Teja, Charla

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Summary

AI/ML, Automation, and Software Engineer with an M.S. in Computer Science and Software Engineering and hands-on experience building LLM-powered applications, machine-learning workflows, test automation frameworks and full-stack web applications, Skilled in Python with additional training in RAG, GraphRAG, NLP and cloud-based AI workflows.

EDUCATION

Auburn University, Auburn, AL

Master of Science, Computer Science and Software Engineering – GPA: 3.56

Jan 2023 – Dec 2024

Key Coursework: Artificial Intelligence, Computer Vision, Data Mining, Advanced OS, Database Systems, Algorithms, Web App Development.

Jawaharlal Nehru Technological University, Hyderabad, India

Bachelor of Technology, Electronics and Communication Engineering – GPA: 7.1

Jul 2018 – Jul 2022

Key Coursework: C programming, Python, C#, Web development, VLSI, Antennas, Digital Networks

TECHNICAL SKILLS

Languages: Python, Java, C, C#, JavaScript, TypeScript, SQL

AI / ML: Machine Learning, LLMs, RAG, GraphRAG, NLP, OpenAI API, Google Gemini, Scikit-learn, TensorFlow (basic), PyTorch (basic), OpenCV, TextBlob

Automation & Testing: Playwright, Selenium (basic), API Testing, POM Architecture, CI/CD (GitHub Actions, Docker), Agile Testing

Web Development: React, Node.js, Streamlit, HTML5, CSS, Bootstrap

Data Tools: Pandas, NumPy, Power BI, Matplotlib, Plotly

Databases: MySQL, MongoDB, SQLite

Tools / Platforms: Git, Ubuntu, VS Code, Unity, jGRASP, REST API Development

WORK EXPERIENCE

Graduate Teaching Assistant – Java Programming

Auburn University | July 2024 – Dec 2024

- Mentored 120+ students each semester in OOP, data structures, and debugging using Java.
- Designed and evaluated lab projects aligned with Agile and test-driven methodologies.
- Simplified advanced topics like threads and concurrency through real-time demos.

Web Developer Intern

AccioJob Growth Internship | Hyderabad, India | May 2022 - Jul 2022

- Built responsive web applications using React, Node.js, and REST APIs, improving usability across 3 live deployments.
- Improved UI performance by ~25% through component optimization and caching.
- Collaborated within Agile sprints using Git for multi-module version control.

AI / ML TRAINING & PROFESSIONAL DEVELOPMENT

Applied Artificial Intelligence & Machine Learning Training Program

Trisoft | Dec 2025 - May 2026

- Completed an in-depth AI/ML training program covering the machine-learning development lifecycle, algorithm selection, data preparation, model training, evaluation, and end-to-end ML pipeline.
- Worked through notebook-based case studies using datasets such as Abalone and Lending Club to understand practical regression, classification, and data-analysis workflows.
- Studied generative AI and NLP use cases, including dialogue summarization with Flan-T5 and LLM based application patterns.
- Explored Retrieval-Augmented Generation (RAG) through AWS and Azure examples, including retrieval workflows and a comparison of Traditional RAG and GraphRAG architecture.

PERSONAL PROJECTS

Time-Series Sensor Fault Classification & Digital Twin

Python | XGBoost | Scikit-learn | Time-Series ML

- Built a sequential predictor for temperature, dew point and relative humidity using prior sensor state, cyclical time features and physics-informed humidity calculations
- Engineered residual-based features and trained anomaly classifiers to detect spike, drift, stuck-at and replay faults; an XGBoost baseline achieved 0.88 accuracy with 0.99 anomaly precision.
- Evaluated Logistic Regression and Naive Bayes baselines and explored Transformer-based approaches for real-time fault classification.

Computer Vision: Temporal Prediction & Panorama Stitching

Python | OpenCV | YOLOv5 | ResNet3D | Stable Diffusion

- Developed panorama-stitching pipelines using feature matching, homography warping, seam blending and color-consistency technique.
- Built a single-image temporal-prediction workflow combining action recognition, object-detection, inpainting, pose estimation and diffusion-based future-scene generation.

LLM-Based Resume Scorer

OpenAI | Google API | Streamlit

- Engineered an AI-powered resume evaluator generating match, grammar, and style scores from job descriptions and resumes.
- Integrated LLMs for contextual feedback and visual dashboards with Plotly.
- Automated text extraction and NLP-based grammar detection in a privacy-safe Streamlit interface.

Website Testing Automation with Playwright

Playwright | JavaScript | TypeScript | CI/CD

- Automated end-to-end testing for modern web apps using Microsoft Playwright.
- Built a maintainable framework with Page Object Model architecture.
- Conducted UI & API testing, including network mocking and authentication handling.
- Executed parallel, containerized test runs integrated into CI/CD pipelines.

Template Matching: Where's Waldo?

Python | OpenCV | YOLOv5

- Implemented multi-scale template matching for object detection, boosting accuracy by 30%.
- Applied YOLOv5 for detection robustness under diverse backgrounds and scales.
- Applied edge detection and pyramid scaling to enhance feature recognition before YOLOv5 inference.

Data Mining & Visualization (Coursework)

Python | Pandas | Scikit-learn | Power BI

- Explored large datasets for trends and outliers using classification and clustering techniques.
- Designed dashboards in Power BI for academic reporting and predictive modeling.
- Completed analyses of academic performance metrics to derive actionable insights

SQL Query Tester Web App

MySQL | JavaScript | HTML/CSS

- Developed a browser-based SQL practice tool allowing users to run queries and view real-time results.
- Connected live MySQL back-end with dynamic, educational front-end components.

Online Voting System using Blockchain Technology

React | Bootstrap | Blockchain.js

- Designed a secure DApp ensuring tamper-proof and transparent vote verification through blockchain encryption.

Additional Web Development Projects

SQL | Web Dev | JSON | React

- Built an Instagram Clone Application using JavaScript, JSON, and APIs, which demonstrates my full-stack development skills.
- A clean/minimal Online Compiler for the user to code HTML/CSS/JS on a website.
- Developed a website where user can test their SQL queries by using Web Dev and MySQL Workbench.

CERTIFICATIONS &

TRAINING

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- Python (HackerRank, 2022) – Demonstrated applied problem-solving and algorithmic efficiency.
 - Web Development (Eco Web Hosting Ltd, 2022) – Completed full-stack fundamentals: HTML, CSS, JavaScript, and React.
 - Unity C# Bootcamp (GameDev.tv, 2020) – Built interactive simulations with Unity and object-oriented design.

- Technical Workshops & Hackathon (2019–2020): Renewable Energy, PCB Design, Robotics, and AR/VR applications — foundational exposure to multidisciplinary problem-solving.