

# Sri Venkata Sai Guru Inukurthi

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## Summary

Full-stack and ML Developer with production experience building real-time applications and video analytics pipelines using Next.js, AWS, and PyTorch. Proven track record of shipping internal dashboards, optimizing SEO for 20% traffic growth, and deploying end-to-end features in fast-paced startup environments.

## Education

**GITAM (Deemed to be University)**, Hyderabad, India 2023 – 2027  
B.Tech in Computer Science and Engineering CGPA: 8.38/10.0

## Technical Skills

**Languages:** Python, TypeScript, JavaScript, SQL  
**Frontend:** Next.js, React, Tailwind CSS  
**Backend & Cloud:** Node.js, AWS (DynamoDB, S3), REST APIs, Supabase, PostgreSQL, Docker, Linux  
**Machine Learning & CV:** PyTorch, YOLOv8, OpenCV, Scikit-learn, Hugging Face Transformers, CUDA  
**Tools:** Git, GitHub Actions, Vercel, Streamlit

## Experience

**Software Engineer Intern — AI Secure Solutions** May 2026 – Present  
*Video Analytics, Computer Vision, Next.js, TypeScript, Python, AI Surveillance Systems*

- Engineered core features for an enterprise Video Analytics (VA) platform, enabling real-time CCTV monitoring, anomaly detection, and event-based alerting for security operations.
- Evaluated and optimized AI-powered object detection and tracking models, improving inference latency and detection accuracy for live video streams.
- Architected deployment workflows and UI/UX improvements in collaboration with cross-functional teams, reducing time-to-production for new analytics modules.

**Full Stack Intern — Chitralai** Dec 2025 – Mar 2026  
*Next.js, TypeScript, AWS (DynamoDB, S3)*

- Developed an internal analytics dashboard leveraging live AWS data sources to track subscriptions, user uploads, and platform activity, accelerating leadership decision-making.
- Engineered a role-based blog CMS featuring rich text editing, image uploads, and draft workflows, streamlining content creation for non-technical teams.
- Implemented comprehensive SEO optimizations across 7+ high-traffic public pages, driving a 20% increase in organic traffic within two weeks.
- Shipped features independently in a lean startup environment, taking full ownership of frontend UI, backend API integration, and deployment workflows.

## Projects

**Autonomous Quote Agents (LangGraph & Llama 3)** [\[GitHub\]](#)

- Engineered a multi-agent ML pipeline utilizing LangGraph to automate insurance quote optimization.
- Deployed a Risk Profiler using a CatBoost classifier to segment users based on 25 driving history parameters with 100% accuracy.
- Implemented a Conversion Predictor leveraging SMOTE to counter class imbalance, generating real-time explainability metrics (SHAP, LIME) in <200ms per quote.
- Integrated Groq Llama 3.3 70B to synthesize ML outputs into human-readable justifications for automated approval workflows.

**WebUI Element Detection Model (YOLOv8)** [\[GitHub\]](#)

- Fine-tuned YOLOv8m on a custom Roboflow dataset to detect web UI components (buttons, forms, inputs) from screenshots using PyTorch and CUDA acceleration.
- Engineered an automated data pipeline using Playwright to scrape, preprocess, and annotate real-world UI screenshots for large-scale YOLO-format dataset generation.
- Built a Streamlit inference interface utilizing OpenCV and PIL for real-time confidence visualization.

**Techscapades 4.0 — Real-Time Treasure Hunt Platform** [\[GitHub\]](#)

- Built a real-time multiplayer QR-based event platform using Next.js 15 and Supabase, scaling to support concurrent participants during a campus-wide technical event.

- Implemented randomized clue logic, synchronized countdown timers, admin monitoring controls, and automated anti-cheat workflows.

**Reinforcement Learning Dino Bot (NEAT)**

[\[GitHub\]](#)

- Built a NEAT-based reinforcement learning agent in Python that learned obstacle avoidance from scratch within 20 generations.
- Applied evolutionary neural networks with mutation, crossover, and speciation using neat-python within a custom Pygame environment.

**Leadership**

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**Vice President — GitHub Community GITAM**

Sep 2024 – Present

- Led planning and execution of 4 technical events reaching 200+ unique students, focusing on AI, Git, and modern developer tooling.
- Managed event operations, budgeting, technical execution, and delivered talks to audiences of up to 60 students.

**Coding Team Lead — COGAAN Club**

Nov 2023 – Present

- Conducted technical workshops and student mentoring sessions focused on practical AI tooling, including co-hosting a Prompt Engineering workshop for 57 students.

**Achievements & Certifications**

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|---------------------------------------------------|--|---------------------------------------------------|
| • <b>Top 3</b> — GITAM x Kodryx Hackathon (2026)  |  | <b>2nd Place</b> — Shore Fest ML Hackathon (2025) |
| • AWS Academy Graduate (Cloud Foundations)        |  | MongoDB Certified (CRUD Operations, AI Agents)    |
| • <b>Qualified</b> — CSE Hackathon Round 2 (2025) |  | Cisco Networking Basics                           |