

Sriman Donthireddi

(317) 514-0162 | srimanvd@gmail.com | linkedin.com/in/srimand | github.com/srimanvd | U.S. Citizen

EDUCATION

Purdue University	Expected May 2026
B.S. in Computer Science GPA: 3.85/4.0	
– Honors: Scholars List (2022–2024), 21st Century Scholar	
– Coursework: Data Structures & Algorithms, Software Engineering, AI, Deep Learning, Operating Systems, Databases, Data Engineering, Computer Architecture, Theory of Computation, Linear Algebra, Discrete Math	

EXPERIENCE

Co-founder	Aug 2025 – Present
ComputeAI (computeai.app) / Indianapolis, IN	
– Co-founded ComputeAI , a data centric AI startup that turns noisy Common Crawl STEM content into pretraining, SFT, and RL datasets for LLMs and collects grounded desktop interaction data with chain of thought to train agentic models.	
– Built the first full data pipelines for these two tasks, delivering training ready datasets by designing dataset formats, implementing Common Crawl parsing and desktop event logging with millisecond level timestamps and aligned chain of thought, and adding automated checks to remove low quality samples.	
Computer Vision Researcher	Aug 2025 – Present
The Data Mine & V2X / Indianapolis, IN	
– Developing an image recognition system on a 100k+ image dataset to identify vehicle license plates in varied conditions.	
– Designing a pipeline to process 3,000+ images/hour using YOLO, Vision Transformers, CNNs, and PyTorch , with deployment planned for real-world automated tolling and enforcement .	
Software Engineer Intern I & II	May 2024 – Nov 2025
Erie Insurance Group / Erie, PA	
– Rebuilt a legacy life-insurance quoting system on a PERN stack (Postgres, Express, React, Node), used by 6,000+ employees/agents , and containerized/deployed it with Docker and AWS (ECS/Fargate, Lambda, Amplify) to improve scalability and reliability.	
– Developed new life-insurance product features and refactored legacy code (metadata, dashboard deprecation) in an Agile team, improving usability, maintainability, and data accuracy.	
AI/ML Research Lead	Aug 2024 – May 2025
The Data Mine & Corteva Agriscience / Indianapolis, IN	
– Led a team of 8 to build an AI chatbot that let scientists instantly search and analyze 5,000+ product SDS/Label PDFs .	
– Developed an innovative graph-based Retrieval-Augmented Generation (RAG) system , enabling large-scale Q&A across thousands of documents beyond traditional context window limits.	
– Delivered estimated multi-million dollar annual savings in labor and hiring costs by cutting research time 95% , transforming weeks of manual review into minutes.	

PROJECTS

Phantasia — Best Overall Winner, Purdue INDY Hackathon 2025	Mar 2025
– Led a team of 4 to build an educational platform with PDFs, LaTeX editing, graphing, and AI-powered Manim video generation plus screenshot-based AI Q&A via a multi-agent framework (MCP + OpenAI, Gemini, DeepSeek), cutting STEM content creation and study time from days to minutes.	
Customer Order — Cloud Data Engineering	Feb 2025
– Built ETL/ELT pipelines using Azure Data Factory, Cosmos DB, PostgreSQL, and Blob Storage to support both OLAP and OLTP workloads, reducing ingestion time by 70% through optimized data flows and CI/CD for a fault-tolerant, scalable architecture.	

SKILLS

Languages: Python, GoLang, Rust, C, C++, JavaScript/TypeScript, Java, SQL, HTML, CSS
Frameworks/Databases/Cloud & Tools: React, Svelte, Node.js, Next.js, Electron.js, Tauri, PostgreSQL, MongoDB, MySQL, Pinecone, PySpark, Docker, Git/GitHub, Linux, AWS (ECS, Lambda, SageMaker), Azure (ADF, Fabric), Terraform, Kubernetes, Apache Airflow, PowerBI, CI/CD
Machine Learning: PyTorch, TensorFlow, Hugging Face, LangChain, LlamaIndex, RAG architectures, Adversarial Training, Model Context Protocol, Agent2Agent