RENUGOPAL SIVAPRAKASAM

+1 940 629 9100 •	·•	• Open to Relocation
Leveraging over 5 years of experience in softwar contribute my expertise in AI, machine learning,		
Programming Languages and Databases: Pythe Frameworks: Django, Fast API, Flask, Node JS, Language Models (LLMs), Matplotlib, PySpark, Tools and Technologies: O1, Llama, o3, deepsee	on, Postgresql, SQL, NoSO, React, TensorFlow, Scikit REST API.	
Machine Learning, AI, Data Analytics, Queues, F Other: Team Leadership, Communication, Scrun	Redis, Neural Networks, Je	enkins, Hadoop, Git, Microservices, Pub-Sub.
	EXPERIENCE	
Senior Software Engineer/Team Lead		
 deliver real-time insights, which helped earn F Software Architecture - Orchestrated a multi \$2M in its first year, remarkably streamlining System Optimization - Optimized PostgreSQ 	Forbes top 100 innovative of i-tenant software architectudata processing and significate queries and caching to control of the	ure overhaul that drove a revenue surge exceeding ficantly enhancing overall operational efficiency. cut data latency by 60% and integrated
•	marytics dashboards to boo	ost real-time processing and customer satisfaction.
 Django, and AWS to deploy clustering models Database Optimization - Refinined ORM questions for reduction in API response times while er System Monitoring - Implemented compreher 	s that accurately predicted ueries and implemented ad hancing security with robustive system monitoring be	or leading pharmaceutical clients using Python, patient adherence and improved clinical outcomes. Ivanced machine learning algorithms, achieving a sust multi-factor authentication. By integrating the ELK stack with AI-driven log and ensuring high platform availability and reliability.
-	tion to under one minute ar	ind clisuring high platform availability and renability.
 Django, and JavaScript, automating text analy AI Automation - Developed and integrated a data to optimize grants and further reduce projectory DevOps Proficiency - Led critical DevOps in and Kubernetes, accelerating deployment time Associate Software Developer/Freelancer IoT Engineering - Engineered a full-stack Io 	rsis and proposal customize machine learning template posal creation time by 70% itiatives by designing CI/C es by 50% and significantly ————————————————————————————————————	e recommendation system that analyzed historical 6 and help secure over €10M in public funding. CD pipelines with Jenkins, GitHub Actions, Docker, y increasing overall release frequency.
	PROJECTS	
formulas. Leveraged Python, Django, Tornado, a	ive editor especially made and JavaScript to enhance t ed event planning platform	n by integrating LLMs like Gemini. Leveraged
vendor and scheduling suggestions for event plan showcasing expertise in LLM integration and pro	ners. Implemented the systoduct development.	
data points. Utilized PySpark, MLib, GCP archite		
Successfully demonstrated using Big data technology - Built a RAG-based ser	logies, data pipelines and b mantic search system for re	building models on huge dataset. estaurant reviews using Sentence-BERT embeddings
and Qdrant vector database for efficient similarity context-aware query understanding. Delivered pe		-3.2-3B-Instruct for local LLM inference and ons, highlighting expertise in RAG and vector DB.
Master of Science (M.S.) in Computer Science.		Aug 2023- Curren
University of North Texas		Denton, Texas, USA
Relevant Coursework: Machine Learning, Big Da Bachelor of Engineering (B.E) in Electronics a		, Data Structures, Databases, Operating Systems

Bengaluru, Karnataka, India

PESIT South Campus(affiliated with Visvesvaraya Technological University)

Relevant Coursework: Algorithms and Data Structures, Operating Systems, Networking, Embedded Systems, C++