Srikeerthi Srinivasan

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Summary

Software Engineer with expertise in backend development, API integrations, and scalable system design. Proficient in Python, database management, and AI-driven optimizations, with a strong track record of delivering impactful software in startup environments.

Experience

Software Developer Intern   01/2025 - Present
ecohome.one LLC | Seattle, WA

- Built an Alexa skill to extract receipt data from emails, integrating NLP and automation based on customer requirements.

Research Assistant   01/2023 - 12/2023
Sustainable and Equitable Allocation of Resources Lab, UTA | Arlington, TX

- Conducted detailed analysis of transportation patterns from NHTS data, providing actionable insights for sustainable electric vehicle infrastructure planning and reducing gasoline reliance.
- Designed a workflow to convert 2D neighborhood maps into 3D layouts using ArcGIS Pro and Mask R-CNN with 90% accuracy.

Machine Learning Engineer   05/2021 - 07/2022
Scientist Technologies Pvt Ltd | Bengaluru, India

- Reduced physiotherapy costs by 5% and managed 100+ patients with a computer vision-based model.
- Deployed an AI algorithm for real-time interpretation of medical device readings with 95% accuracy.
- Created a culinary database of 5,000+ recipes supporting an NLP-based diet planner.
- Improved software quality by conducting design reviews and providing feedback on coding practices, leading to more robust and maintainable code.

Intern   05/2020 - 06/2020
Nestle India | Cherambadi, India

- Developed a Google Sheets-based tool for equipment maintenance reporting, improving efficiency by 40%.
- Led training initiatives on tool usage, boosting workforce productivity by 15%.

Skills

Programming Languages & Frameworks: Python, Django, Flask, Streamlit, TensorFlow, PyTorch, OpenCV, Scrapy, NodeJS
Databases & Tools: PostgreSQL, MongoDB, DynamoDB, PGVector, REST, AWS, GCP, Docker, Git, GitHub
Core Knowledge Areas: Machine Learning, Computer Vision

Projects: Github

Candidate Search Application (HackUTA 2024)   Github

- Developed a candidate search app using Streamlit, MongoDB, and OpenAI for resume retrieval with 95% accuracy.
- Designed a semantic search engine leveraging OpenAI embeddings, achieving accurate and relevant candidate matching.
- Built a scalable backend with MongoDB Atlas and deployed the application on Streamlit Cloud.

ETL Data Pipeline   Github

- Built a batch processing pipeline with AWS Lambda to validate and transfer data from S3 to DynamoDB.
- Secured sensitive credentials using AWS Secrets Manager, ensuring robust and secure data handling.

Education

Master of Science in Computer Science   07/2022 - 12/2024
University of Texas at Arlington

- Officer at Mobi Group, UTA: Promoted open-source development through social coding initiatives.

Bachelor of Engineering in Computer Science and Engineering   07/2017 - 08/2021
Vidyavardhaka College of Engineering

- Officer at Open Source Lab: Winner of Smart India Hackathon 2019