

Tarun Konagalla

tkonagalla@smu.edu | [Linkedin](#) | Dallas, TX | +1-945-274-8351 [Portfolio](#)

Education

Southern Methodist University, MS in Software Engineering (Aug 2023 – May 2025)

Dallas, Texas

Vasireddy Venkatadri Institute of Technology, BS in Computer Science (Aug 2019 – June 2023)

Andhrapradesh, India

Technical Skills

Languages: Java, Python, JavaScript (ES6+), TypeScript, SQL, C++

Libraries/Frameworks: React, Node.js, Express, Spring Boot, Flask, Django, Git, Docker

Development Methodologies: Agile, SDLC, Microservices Architecture

Databases: MySQL, MongoDB

Version Control & Tools: Git, Docker, GitHub, VSCode, Visual Studio, Wireshark, Cisco Packet Tracer

Cloud & Deployment: AWS, Azure, Sitecore CMS

Work Experience

Software Engineer Intern (Web Technologies)

Dallas, TX

Southern Methodist University

(August 2024 – Present)

- Engineered and deployed scalable production-grade web features using Sitecore CMS, Azure SQL, and JavaScript frameworks, supporting over 30 dynamic content modules in a live environment.
- Participated in Agile development cycles, coordinated feature planning, and delivered production-ready code in sprint-based workflows.
- Diagnosed and resolved full-stack bugs across UI and database layers, improving performance reliability by 15% and ensuring end-to-end functionality.
- Worked cross-functionally with internal team to translate user requirements into clean, maintainable code across scalable front-end systems.

Salesforce Developer Internship

India

SmartInternz in partnership with AICTE

(July 2022 – September 2022)

- Completed Salesforce Developer Internship with SmartInternz in collaboration with AICTE, gaining hands-on experience in end-to-end Salesforce development.
- Developed Apex code, built Lightning Web Components, and automated flows with Salesforce DX and VS Code, ensuring secure, tested solutions.
- Achieved Salesforce Superbadges: Apex Specialist, Process Automation Specialist, proving hands-on in real-world business scenarios.

AI-ML Intern

India

AWS Academy

(March 2022 – May 2022)

- Completed an internship aligned with industry-focused AI/ML practices, powered by AWS Academy, emphasizing cloud-integrated machine learning workflows.
- Developed supervised machine learning models in Python using real-world data with data wrangling, feature engineering, and model evaluation.
- Built scalable machine learning pipelines using Jupyter Notebooks, AWS services, and scikit-learn in a cloud-based production environment.
- Learned AI deployment strategies, cloud architecture for implementing enterprise-level machine learning solutions on cloud platforms.

Projects

Analysis of Abnormal Activity Detection in Offline Surveillance Footage ([Published in IJIEMR, Vol 12, Issue 04, April 2023](#))

- Engineered a deep learning model to detect abnormal activities (robbery, violence, accidents) in offline surveillance footage using labeled Kaggle video datasets.
- Implemented and evaluated pretrained models including VGG-16, ResNet50, and 2D-CNN, achieving 99.99% accuracy with VGG16.
- Converted video data into frame sequences and used transfer learning to classify human activity patterns.
- Applied deep learning to real-world scenarios in smart surveillance and public safety systems.

Smart Hiring Web Application

- Developed a scalable full-stack job platform using ReactJS, Node.js, and MySQL simulating real-world hiring pipelines; optimized backend performance and enhanced UI responsiveness for improved user engagement.
- Implemented search filters and skill-based job recommendations to improve recruitment efficiency and deliver a better user experience.

Certifications

[AWS Academy Cloud Foundations](#)

April 2022

[AWS Academy Machine Learning Foundations](#)

April 2022