Tarun Konagalla

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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: C, Java, C++, Python, SQL, R, HTML, CSS, TypeScript, XML, JavaScript

Libraries/Frameworks: React, Tailwind CSS, Bootstrap, Angular, Node, RESTful-API, Springboot, Django, Flask

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

Web-Tech Assistant   *Dallas, TX*
Southern Methodist University   *(August 2024 – Present)*

- Developed and tested scalable web applications using Sitecore CMS and Azure SQL, supporting over 30 college web pages and ensuring high performance and responsiveness.
- Contributed to Agile sprints and team meetings to prioritize tasks and deliver web applications on time.
- Identified and resolved critical bugs through advanced debugging tools, improving overall application reliability by 15%.
- Collaborated with more than 10 academic and administrative departments to integrate updates, enhance functionality, and boost user engagement by 20%.
- Ensured web development best practices, improved security compliance, and boosted user satisfaction by 25% across platforms

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 and Process Automation Specialist, proving hands-on expertise 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 solution to identify abnormal activities—robbery, violence, and accidents—from offline surveillance footage using labeled video datasets from Kaggle for model training.
- 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

- Built a full-stack job portal with ReactJS, Node.js, Express, and MySQL to manage user profiles, job posts, and application workflows.
- 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