

Durga Sreepadh Pendem

Junior Software Engineer

SUMMARY

- Software Engineer with 1+ years of experience in developing scalable full-stack applications using .NET (C#), React.js, and SQL Server, focusing on responsive UI and efficient backend integration.
- Expertise in AI-driven automation, including LLM-powered applications, Retrieval-Augmented Generation (RAG), prompt engineering, and vector embedding pipelines using Python and AI frameworks like TensorFlow and PyTorch and Exploratory Data Analysis (EDA) to support AI/ML model development and deployment
- Proficient in designing and optimizing REST APIs, database query workflows, and integrating intelligent automation solutions within Agile cross-functional teams.

TECHNICAL SKILLS

Main Technical Skills	C/C++/C# (1 yr.), React (1 yr.), MySQL (1 yr.), Python (1 yr.)
Programming Languages	Java, JavaScript, Python (1 yr.)
C++ Libraries and Tools	C/C++/C# (1 yr.)
AI & Machine Learning	Hugging Face (1 yr.), LLaMA, NLP, ollama (1 yr.), PyTorch (1 yr.), TensorFlow (1 yr.), Transformer models
Python Libraries and Tools	PyTorch (1 yr.), TensorFlow (1 yr.)
JavaScript Frameworks	React (1 yr.)
Data Analysis and Visualization Technologies	Data Analysis (1 yr.)
Databases & Management Systems / ORM	MySQL (1 yr.), relational databases
Azure Cloud Services	Azure App Service
Methodologies, Paradigms and Patterns	Agile (1 yr.), UML (1 yr.)
SDK / API and Integrations	API, RESTful API (1 yr.)
Deployment, CI/CD & Administration	CD DevOps pipelines (1 yr.)
Version Control	Git (1 yr.)
Operating Systems	Linux (1 yr.)



Blockchain and Decentralized Software	Optimism
QA, Test Automation, Security	QA Automation (1 yr.)
Other Technical Skills	Unreal Engine (1 yr.)

WORK EXPERIENCE

Associate Software Engineer - Nations Benefits (AI-driven Healthcare Automation and Scalable Full-Stack Application Development)

Duration: July 2025 – Present

Summary:

- Development of scalable enterprise-grade full-stack applications with a focus on responsive UI and efficient backend integration
- The project includes AI-driven automation initiatives for healthcare applications using Large Language Models and intelligent document processing

Responsibilities:

- Developed scalable full-stack applications using .NET (C#), React.js, and SQL Server.
- Designed and integrated dynamic React.js frontend modules with backend services and REST APIs.
- Optimized query workflows for scalable application architecture and efficient data handling.
- Collaborated in Agile teams for feature development, debugging, testing, and deployment support.
- Contributed to AI-driven automation involving LLMs, Retrieval-Augmented Generation (RAG), and prompt-based workflows.
- Utilized Git for version control and collaborative development.

Technologies: .NET (C#), React.js, SQL Server, REST APIs, Git, Agile, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG)

Software Intern - Nations Benefits (Scalable Intelligent Applications and AI-driven Automation Systems)

Duration: October 2024 – May 2025

Summary:

- Internship project focused on building scalable intelligent applications and automation systems using AI technologies including Large Language Models, prompt engineering, and vector embedding pipelines
- The project aimed to enhance AI/ML model development and integration for enterprise applications

Responsibilities:

- Worked with Large Language Models (LLMs), ETA data pipelines, and AI-driven workflows.
- Developed scalable applications using .NET (C#), React.js, and SQL Server.



- Implemented prompt engineering, model optimization, and fine-tuning using LoRA, QLoRA, and quantization.
- Performed data preprocessing, feature engineering, and Exploratory Data Analysis (EDA) for AI/ML model support.
- Integrated AI/ML models using TensorFlow, PyTorch, Ollama, REST APIs, and cloud AI services.
- Contributed to deployment workflows, model monitoring, validation pipelines, and observability practices ensuring model fairness, privacy, and security.

Technologies: .NET (C#), React.js, SQL Server, Python, TensorFlow, PyTorch, Ollama, REST APIs, LoRA, QLoRA, Agile

EDUCATION

- **B.E : CSE(AI & ML) – Osmania University, Neil Gogte Institute of Technology**
Dec 2021 – Jan 2025

