Anuragh Vasam

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SUMMARY

Software Engineer with 4+ years of experience designing, supporting, and maintaining .NET desktop and web applications with strong skills in C#, VB.NET, WinForms, ASP.NET, SQL Server, and automation. Proficient in diagnosing production issues, optimizing SQL queries, building SSRS reports, modernizing legacy modules, and enhancing data workflows. Experienced in ERP support (Macola), system integrations, and end-to-end debugging. Skilled in Agile development, Azure DevOps, version control, and delivering reliable, maintainable solutions for operational teams.

EDUCATION

University at Buffalo - SUNY   May 2024
Master's, Data Science & Engineering   *CGPA: 3.6/4.0*

VNR VJIET   *Jun 2019*
Bachelor's, Engineering   *CGPA: 9.5/10 (Gold Medalist)*

PROFESSIONAL EXPERIENCE

Programmer: Q2 Artificial Lift Services, Texas, USA   Sep 2025 – Nov 2025

- Supported Macola ERP modules including Order Entry, Purchasing, Inventory, Manufacturing, AR/AP, and GL; resolved posting errors, transaction failures, and module-level data inconsistencies.
- Designed and optimized SQL Server queries for forecasting, inventory valuation, order status, and operational analytics used across finance and production.
- Created and maintained SSRS reports including Inventory Aging, Forecast vs Actual, Production Orders, AP/AR Aging, Vendor History, and Sales/Order Detail.
- Built C#, VB.NET, ASP.NET utilities to automate data imports, enforce validation rules, and streamline internal workflows.
- Fixed production issues by reviewing logs, debugging broken modules, and applying durable code fixes with clear documentation.
- Enhanced system reliability by implementing data-cleanup routines, index optimizations, and stored procedure improvements.
- Performed user access management, system security updates, and permissions troubleshooting across ERP and internal tools.
- Documented troubleshooting procedures, recurring issue resolutions, and technical workflows for cross-team knowledge sharing.
- Coordinated deployments and patch updates using Git and Azure DevOps, ensuring version tracking and rollback safety.
- Used AI-assisted tools (ChatGPT/Copilot) for code explanation, SQL verification, documentation drafting, and debugging guidance.

Software Engineer: Hexagon AB, Hyderabad, India   2021 – 2023

- Developed .NET utilities integrated with SQL Server to support Smart3D engineering workflows, improving automation and reducing manual processing.
- Built SQL automation routines for generating intermediate datasets and validation reports.
- Improved reliability of engineering workflows through data validation, rule enforcement, and error-handling enhancements.
- Debugged production issues including broken data mapping, inconsistent references, and logic mismatches impacting engineering tools.
- Refactored high-impact modules for better performance and maintainability.
- Supported global release cycles through regression testing, validation, and impact analysis.
- Created documentation for feature behavior, release updates, workflow steps, and code change summaries.
- Collaborated with engineering teams worldwide to align logic, configurations, and system expectations.

- Participated in Agile sprints, writing tasks, attending standups, and performing code reviews.
- Managed Git-based version control with structured branching and clean commit practices.

Software Engineer: Hexagon AB, Hyderabad, India   2019 – 2021
- Built WinForms and VB.NET internal applications supporting dataset processing and engineering workflows.
- Created SQL stored procedures, views, and optimized queries to drive backend data operations.
- Modernized legacy scripts into structured .NET modules, reducing recurring issues and maintenance cycles.
- Developed file-parsing logic for structured engineering files (TXT/XML/CSV) into SQL datasets.
- Conducted RCA on functional failures and resolved core logic defects.
- Participated in full testing cycles to ensure stability across version updates.
- Documented system behavior, change logs, and module-level enhancements.
- Collaborated with team members in refactoring code to improve readability and performance.
- Supported global rollout processes with validation and environment checks.
- Provided internal support, helping users troubleshoot issues and improve data accuracy practices.

PROJECTS

Developer: AI Chatbot Web Application, HTML, CSS, JavaScript, Google Gemini API   2024
- Built an interactive AI-powered chatbot integrating Google Gemini API for text and image-based queries.
- Designed a responsive UI with loading animations, emoji picker, image upload, and dynamic DOM rendering.
- Implemented asynchronous API communication with structured JSON handling and error management.
- Developed modular JavaScript components enabling easy customization and integration into external systems.
- Delivered a clean, maintainable codebase following best practices in UI/UX and front-end behavior.

Participant / Automation Developer: AI Automation Workflow Systems – Outskill AI Mastermind Workshop, Hands-On AI Automation Lab   2025
- Built end-to-end AI automation pipelines capable of completing multi-step tasks in seconds using AI agents, workflow orchestration, and API-based triggers.
- Designed automated content-generation workflows integrating LLMs, prompt chains, and validation layers to reduce manual work and accelerate creative output.
- Developed prototypes for task automation including data extraction, summarization, reporting sequences, and automated email/workflow processing.
- Implemented AI-driven productivity tools converting manual 30–45 minute processes into 20–30 second automated executions using modular automation components.
- Collaborated with instructors and peers to translate real business processes into scalable automation systems, improving understanding of AI-first workflows.

TECHNICAL SKILLS

Languages & Frameworks: C#, Python, VB.NET, ASP.NET, .NET Framework, WinForms, WPF, SQL, LINQ, JavaScript, HTML, CSS
Databases: SQL Server, Oracle, PostgreSql, MongoDB, T-SQL, Stored Procedures, Views, Triggers, Query Optimization, Data Modeling
Reporting: SSRS, Data Transformations, CSV/XML/TXT Parsing, Forecasting Queries
Tools: Visual Studio, SSMS, Git, Azure DevOps, Debugging Tools
Support & Operations: Production Issue Resolution, ERP (Macola) Support, Security Administration, Job Monitoring, Documentation

ACHIEVEMENTS & CERTIFICATIONS

- Gold Medal – Best Outgoing Student (B.Tech. 2019)
- STAR Award – Database Migration Enhancement