

ANURAGH VASAM

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SUMMARY

Dynamic and detail-oriented Senior Software Engineer with nearly 5 years of professional experience in web and software development, automation, and database management. Specializes in designing scalable, intuitive solutions using ASP.NET (C#), JavaScript, and SQL, with expertise in the full software development lifecycle, including requirements analysis, testing, and deployment. Proven ability to lead projects, optimize workflows, and deliver exceptional results aligned with business needs.

Core Highlights:

- **Web Development Expertise:** Proficient in developing responsive, cross-browser-compatible web and mobile applications using **HTML**, **CSS**, **JavaScript**, **JSON**, **XML**, and **jQuery**.
- **Database Management:** Hands-on experience in relational database design and optimization. Adept at writing complex **SQL** queries, **stored procedures**, and using **Entity Framework** and **LINQ** for database integration. Managed seamless migrations from **MSSQL to Oracle** with zero data loss.
- **Automation & Testing:** Automated workflows and reports using **Python** and Excel macros, achieving up to a 50% reduction in manual effort. Skilled in creating and executing unit tests and integration tests to ensure application quality.
- **Technical Design:** Designed and developed MVC-based and 3-tier web applications, ensuring modularity, scalability, and maintainability. Utilized **LINQ** and **Lambda expressions** for efficient data processing and code optimization.
- **3D Symbol Development:** Created innovative engineering solutions by developing 3D objects and symbols for piping, cable trays, and ducts using **C#.NET**, including custom commands for enhanced precision.
- **Collaboration & Leadership:** Successfully led cross-functional teams and trained clients as a subject matter expert, ensuring effective knowledge transfer and project success. Proficient in team collaboration tools like TFS and Git, ensuring version control and continuous integration.
- **Business Acumen:** Excellent ability to understand business requirements, translate them into technical specifications, and design user-centric solutions. Strong communicator with the ability to explain complex technical concepts to non-technical stakeholders.

TECHNICAL SKILLS

1. Programming Languages: **ASP.Net(C#), Python, , R, Java, HTML, CSS, JavaScript, XML, Node.js**
2. Data Analysis Tools: **Jupyter Notebooks, Pandas, NumPy, Visual Studio, Visual Studio Code**
3. Web Development: **JSON, XML, HTML5, CSS3, JavaScript, jQuery**
4. Data Visualization: **Matplotlib, Seaborn**
5. Version Control/Code management tools: **Team Server Foundation(TFS), github**
6. Frameworks & Libraries: **.NET Framework, MVC, MVVM, Scikit-learn**
7. Cloud Technologies: **AWS EC2, AWS S3, AWS Lambda, DynamoDB, Docker**
8. Databases: **MSSQL, Oracle, PostgreSQL**
9. 3D Modeling & Engineering: **Intergraph Smart Plant 3D, AUTOCAD**
10. Additional Skills: **Data Cleaning, Data Engineering, Automation (Python & Excel)**

PROFESSIONAL EXPERIENCE

- **Senior Software Engineer, Hexagon Capability Center India Pvt. Ltd, Hyderabad, Telangana (2021-2023)**
 1. Created interactive, scalable, and robust applications, leveraging **ASP.NET (C#), MVC, and JavaScript**, ensuring optimal performance and user experience.
 2. Assisted in migrating legacy systems from **ASP to ASP.NET**, modernizing system functionality.
 3. Wrote SQL stored procedures, views, triggers, and performed database optimizations in SQL Server.
 4. Developed user-friendly interfaces and workflows for applications using **jQuery, HTML, and CSS**, ensuring seamless client interaction.
 5. Collaborated with the development and testing teams to implement innovative solutions, ensuring alignment with client specifications and standards.
 6. Provided continuous recommendations for product and tool improvement, fostering innovation and maintaining high-quality deliverables.
 7. Acted as a subject matter expert in 3D Symbol development, training internal teams and clients to enhance their technical capabilities.
 8. Contributed to version control and project tracking using Team Foundation Server (TFS) for collaborative software development.
 9. Developed **Excel report generators** for plant models using **C#.NET, VB6, and VB.NET**, with data retrieved from **MSSQL and Oracle** databases through **SQL** queries.
 10. Built tools and utilities in **C#.NET, WinForms, and Python** to streamline workflows and automate processes.
 11. Automated repetitive tasks using **WinForms and C#.NET**, reducing manual work and expediting project timelines.
 12. Utilized **Python** for creating automation scripts, improving tool integration and system performance.

13. Designed and developed user-friendly interfaces that simplified project management and enhanced user experience.
14. Upgraded **Smart3D Databases** from older versions to the latest, ensuring data compatibility and system stability.
15. Developed **3D complex piping supports** using **C#.NET**, contributing to precise and detailed engineering design models.
16. Collaborated with **developers, project managers**, and **quality assurance teams** to resolve technical issues, enhancing overall project outcomes.
17. Provided technical support for integrating **Smart3D** and custom-built applications with databases, ensuring seamless operation.
18. Planned and implemented efficient interface designs that prioritized functionality and ease of use for all users.
19. Led comprehensive training sessions as a **subject matter expert**, guiding clients in the effective use of tools and processes.
20. Worked with cross-functional teams to optimize project workflows through automation and improve performance using **C#.NET** and **Python**.
21. Ensured database integrity and performance by using **SQL** to query **MSSQL** and **Oracle** databases for complex data retrieval tasks.

- **Software Engineer, Hexagon Capability Center India Pvt. Ltd, Hyderabad, Telangana(2019-2021)**

1. Gathered requirements, getting sign-off from the business users and prepared system requirements specification for the
2. solution
3. Prototyped and evaluated alternative designs considering security, reliability, continuity and functional completeness
4. Designed and developed .NET web components and user controls using **ASP.NET** and **C#.NET, AJAX** Toolkit
5. Collaborated with **software development** and **testing teams** to design scalable, robust solutions that meet client requirements for **functionality, scalability**, and **performance**.
6. Demonstrated strong **technical aptitude**, offering **continuous improvement recommendations**, driving product innovation, and optimizing overall performance.
7. Played a key role in designing solutions that ensured **scalability** and efficient system performance, aligning with client growth requirements.
8. Served as a **subject matter expert** in **3D Symbol development** using **C#.NET**, providing technical guidance to clients and internal teams.
9. Led client training sessions as a **subject matter expert**, ensuring proper use of tools and effective knowledge transfer.
10. Offered **continuous improvement recommendations** for products and tools, focusing on innovation and improved project outcomes.

EDUCATION

Master's in Engineering Science Data Science
University at Buffalo – CGPA: 3.6/4.0

Start Date: Jan 2023

Graduation: May 2024

1. Specialized in **data analysis, machine learning, and database management**.
2. Completed advanced coursework in **predictive modeling, big data analytics, and data visualization**.
3. Developed hands-on experience with **Python, SQL, R, and cloud-based solutions** during academic projects.

AWARDS & RECOGNITION

1. **Gold Medal – Best Outgoing Student** (B.Tech. Civil Engineering, 2019)- Recognized for **outstanding academic performance**, leadership, and **technical expertise** in engineering.
2. **STAR Award – Database Migration Project** for ADNOC - Awarded for exceptional performance in completing the **database migration project**, ensuring a **smooth transition** and **data integrity** for a high-profile client.
3. **Ultra Tech Cement Company Award** – Highest Marks in Concrete Technology- Rewarded for achieving **top marks** in Concrete Technology, demonstrating a strong understanding of technical concepts during Bachelors

Websites:

[Omnifood — Never Cook Again! \(omnifood-off.netlify.app\)](https://omnifood-off.netlify.app)

Github:

www.github.com/anuraghvasam