VINAY KUMAR SANAGAPALLI

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PROFESSIONAL EXPERIENCE

Software Engineer 2   *May 2024 – Present*
MRI Software   Cleveland, Ohio
- Experienced in project life cycle, analysis, design, and development of Web Applications & Databases using cutting-edge technologies like .Net core, Web API, ASP. NET, C#, Angular, TypeScript, MVC, SQL Server.
- Experience working with front-end technologies like HTML/HTML5, CSS/SCSS, Blazor, Kendo UI, jQuery, JavaScript also including JavaScript frameworks like Angular.
- Developed **ASP.NET Core applications** from scratch, implementing robust **middleware** for handling HTTP requests and **routing** to efficiently map URL paths to controllers and actions.
- Implemented **Dependency Injection (DI)** using `AddSingleton, Addscoped,` and `AddTransient` to enhance application modularity and maintainability.
- Utilized the **ASP.NET Core logging framework**, employing structured logging tools like **Serilog** and **NLog** to track application performance and errors.
- Enforced **data validation** using **Data Annotations** and the **FluentValidation library**, ensuring robust user input handling and improved data integrity
- Implemented **ASP.NET Core Identity** for comprehensive **user management**, including authentication mechanisms like **cookies** and **JWT-based token authentication**.

Software Engineer   *May 2020 – Dec 2022*
Tata Consultancy Services   Bangalore, India
- Expertise in using Angular for SPAs, Models, Services, Dependency Injection, Routing, and Prototyping. Built reactive and template-driven forms with comprehensive validation.
- Improved application performance through lazy loading and efficient data handling. Implemented custom pipes for dynamic data filtering and searching.
- Evaluated the runtime of certain subscribe methods to improve page load time. Used built-in pipes and created custom pipes for dynamic search to search large data in a grid.
- Experienced in Two-way data binding with Forms using input variables and output variables, Property Binding, Bootstrapping, NgFor, NgIf, binding the click event, Component decorator, binding to the hidden property, and nested component.
- Developed user-friendly, self-contained, reusable, and testable Angular modules, components, directives, and services to implement key functionalities.
- Utilized Entity Framework (Code First Approach, Database First Approach) and LINQ for efficient data access and manipulation, improving application performance and maintainability.
- Created and maintained SQL Server databases, writing complex queries, stored procedures, and triggers. Designed and generated reports using SSRS and Crystal Reports.
- Improved application performance by optimizing database queries and implementing caching mechanisms.
- Implemented unit testing with Jasmine and Karma, achieving high code coverage and application reliability.
- Experience in writing and execution of SHELL and Python scripts to automate deployments.

CERTFICATIONS

Azure Data Fundamentals | Microsoft   **Azure Fundamentals** | Microsoft   **Azure AI Fundamentals** | Microsoft

AWS Certified Solution Architect - Associate | LinkedIn

EDUCATION

University of Cincinnati   *Apr 2024*
Master of Science in Information Technology   4.00 *GPA*
R.V.R & J.C College of Engineering   *Apr 2021*
Bachelor of Technology in Information Technology   3.7 *GPA*

TECHNICAL SKILLS

Programming & Scripting Languages: C#, Java, JavaScript, python, C++, YAML, Bash/Shell
Databases: MS SQL, MySQL, Oracle, PL/SQL
.NET Technologies: .NET Core, .NET Framework, ASP.NET, Web API, Entity Framework
Web Technologies: JavaScript, TypeScript, jQuery, Angular, React.js, JSON
Reporting Tools: Microsoft SQL Server Reporting Services (SSRS), SSIS
Third-Party Tools: Kendo UI, Angular Material
Versioning Tools: Microsoft Team Foundation Server (TFS), Git
Cloud, Others: AWS, Azure, Jenkins, Ansible, Docker, Kubernetes, Postman, Git, Terraform