**Sampath Sai | Software Engineer**

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**SUMMARY:**

Experienced and detail-oriented Software Engineer skilled in designing, developing, and deploying scalable web applications using modern technologies such as Python, C#, JavaScript, SQL, and TypeScript. Proficient in frameworks like .NET (ASP.NET, MVC, Entity Framework), React, Angular (2+ to 9), and Node.js, with hands-on expertise in database management using SQL Server, MySQL, PostgreSQL, and MongoDB. Adept at building and integrating RESTful APIs, leveraging HTML5, CSS3, Bootstrap, and Flask for user-centric front-end designs and efficient back-end systems. Knowledge of machine Learning and COBOL. Experienced in cloud platforms including AWS, GCP, and Azure, alongside tools like Git, Docker, Jenkins, and Kubernetes for streamlined CI/CD workflows. Strong knowledge of software testing and build tools, including JUnit and N Unit, with a proven track record in implementing ETL workflows, data integration, and DevOps methodologies to enhance development and delivery processes.

**EDUCATION:**

**Masters in Computer Science Aug 2023 – Dec 2024**

Northern Arizona University, AZ

**Bachelor of Technology in Computer and Science Jun 2008 - May 2012**

Sree Chaitanya Institute of Technological Sciences affiliated by JNTU-H, India

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| **Languages:** | Python, C#, C++, SQL, HTML, JavaScript, TypeScript, Machine Learning |
| **Databases:** | SQL Server, MySQL, PostgreSQL, MongoDB, DynamoDB, Cassandra |
| **Frameworks & Libraries:** | .NET (ASP.NET, ADO.NET, MVC, Entity Framework), React, Angular (2+ to 9), Redux Toolkit, Flask, Node.js, Express |
| **Web Technologies:** | HTML5, CSS3, Bootstrap, jQuery, XML, AJAX, SOAP, REST |
| **Cloud Technologies:** | AWS (EC2, S3, RDS, Lambda), GCP, Microsoft Azure |
| **Tools:** | Git, GitHub, Jenkins, Docker, Kubernetes, Visual Studio, Postman, JIRA, Apache POI |
| **Testing & Build Tools:** | N Unit, JMeter, Smoke Testing, RTL, TFS Team Build |
| **Methodologies:** | ETL Workflows, Data Integration, Data Manipulation, DevOps, MVC, MVVM, MVP |

**TECHNICAL SKILLS:**

**EXPERIENCE:**

**Client: JPMC, New Jersey Feb 2024 – Current**

**Software Engineer,**

* Led the development of an investment portfolio management application using React, Node.js, and .NET core, enhancing user engagement by 25% through real-time tracking and analysis features.
* Collaborated with design teams to create responsive UIs with HTML and CSS, ensuring a seamless experience on both desktop and mobile platforms.
* Developed and optimized RESTful APIs with .NET core micro services, improving data retrieval speed by 30% through integration with third-party financial services.
* Managed PostgreSQL for backend database solutions, implementing models that supported dynamic reporting while ensuring high availability.
* Automated ETL workflows with AWS Lambda, reducing processing time by 40% through streamlined data processing.
* Orchestrated microservices deployment using Docker and Kubernetes on AWS, enhancing application scalability and reliability.
* Implemented CI/CD pipelines with Jenkins, automating testing and deployment to minimize downtime and improve code quality.
* Conducted performance monitoring and load testing with Grafana and JMeter, optimizing application performance for a stable production environment.
* Worked on modern UI frameworks such as Bootstrap, Ant Design (Antd), and CSS3 to create dynamic, user-friendly interfaces.
* Developed microservices using ASP.NET Core, incorporating JWT authentication and implementing logging and monitoring mechanisms.
* Contributed to feature upgrades by transitioning from Angular 6 to Angular 9 and refactoring code for better performance and maintainability.
* Integrated real-time financial data streams using Kafka to enable dynamic updates in the investment portfolio management application, providing users with up-to-the-minute insights and improving decision-making capabilities
* Implemented error handling and logging mechanisms in REST APIs, utilizing tools like Postman, Swagger, and logging frameworks (e.g., Winston) to troubleshoot and improve API performance.
* Leveraged React and Angular debugging tools (Redux DevTools, Angular DevTools) to resolve issues with state management, component rendering, and performance bottlenecks.

**Client: AMAT, India** **Jan 2021** **– Aug 2023**

**Full Stack Developer,**

* Designed and developed responsive single-page web applications (SPAs) using Angular (6–9) and ReactJS, ensuring seamless cross-browser compatibility and mobile-first design.
* Built and integrated REST APIs using Node.js, .NET Web API, and MongoDB, enabling efficient data exchange with JSON.
* Implemented reusable components and custom directives using ReactJS, Redux Toolkit, and Angular, enhancing front-end development workflows.
* Optimized React component rendering using React. Memo and use Callback, reducing unnecessary re-renders and improving application performance.
* Implemented state management using Redux, ensuring smooth data flow and synchronization across the application for better user experience.
* Utilized React Hooks (useState, useEffect, etc.) for building functional components, making the codebase cleaner and more efficient.
* Integrated React with third-party libraries such as Chart.js to display real-time financial data in an interactive and user-friendly manner.
* Wrote unit tests using Jest and React Testing Library, ensuring the reliability of React components and preventing regressions.
* Worked on modern UI frameworks such as Bootstrap, Ant Design (Antd), and CSS3 to create dynamic, user-friendly interfaces.
* Developed microservices using ASP.NET Core, incorporating JWT authentication and implementing logging and monitoring mechanisms.
* Contributed to feature upgrades by transitioning from Angular 6 to Angular 9 and refactoring code for better performance and maintainability.
* Collaborated in an Agile Scrum environment, delivering high-quality code within iterative development cycles.
* Utilized tools like Git, Swagger, Jenkins, and Bitbucket for version control, API documentation, and CI/CD pipelines.
* Integrated external libraries like Wave Surfer for audio player functionality and Angular Material for enhancing the UI/UX, improving user engagement with interactive components.
* Led the design and development of microservices architecture for core business components, optimizing system scalability and performance using .NET Core and RESTful services.
* Utilized browser developer tools (Chrome DevTools, React DevTools) for debugging and optimizing front-end issues, ensuring cross-browser compatibility and performance.
* Implemented error handling and logging mechanisms in REST APIs, utilizing tools like Postman, Swagger, and logging frameworks (e.g., Winston) to troubleshoot and improve API performance.
* Leveraged React and Angular debugging tools (Redux DevTools, Angular DevTools) to resolve issues with state management, component rendering, and performance bottlenecks.

**Client: ODBC Bank, India Apr 2020 – Jan 2021**

**Full Stack .Net Developer,**

* Built responsive, user-friendly interfaces using Angular 6, TypeScript, JavaScript, HTML, and CSS, ensuring seamless interaction across devices.
* Designed and developed RESTful APIs using .NET Web API, optimizing backend performance and enabling real-time data communication.
* Implemented Redux for state management and JWT-based authentication to enhance security and maintain data consistency.
* Migrated legacy projects from Angular 6 to Angular 9, improving application stability and user experience.
* Created database models in SQL Server, wrote complex queries, and optimized stored procedures to support dynamic data-driven features.
* Developed and deployed single-page applications with cross-browser compatibility, leveraging Bootstrap and Angular templates.
* Collaborated with Agile Scrum teams, participating in sprint planning, stand-ups, and retrospectives to ensure timely delivery.
* Configured CI/CD pipelines using Jenkins and managed version control with GIT and Bitbucket for streamlined deployments.
* Deployed and tested web applications in IIS, ensuring robust functionality in production environments.

**Client: ISB, India Apr 2019 – Mar 2020**

**Software Engineer,**

* Collaborated with cross-functional teams to gather requirements, analyze, and develop the Alumni Job Portal, ensuring seamless functionality for job posting, activation, and applicant processing.
* Designed and developed scalable Single Page Applications (SPA) using AngularJS and Angular 6, implementing advanced UI components like nested views, pagination, and directives for dynamic user interfaces.
* Worked extensively with the Microsoft technology stack, including .NET/C#, ASP.NET MVC, Web API, and SQL Server to build and maintain backend services.
* Deployed and configured Azure websites, optimized plugins, and developed custom tools to enhance performance on the Azure platform.
* Implemented data synchronization jobs using Azure to sync SQL Server databases with SQL Azure, improving data accessibility.
* Managed application security using Forms-Based Authentication and implemented Role-Based Security for user access control.
* Automated code deployments and production configurations using TeamCity and Octopus Deploy, ensuring continuous integration and delivery.
* Monitored and tracked issues and incidents, utilizing tools like JIRA and Confluence to streamline resolution processes.
* Conducted code versioning and deployment using GitHub repositories, ensuring efficient collaboration and delivery pipelines.

**Client: Georgia Corp, India**  **Jun 2018 – Apr 2019**

**Software Engineer,**

* Participated in the Software Development Life Cycle (SDLC) phases including analysis, design, implementation, and testing of applications.
* Developed and enhanced existing applications using C#.NET, ASP.NET, AJAX, JavaScript, and XML Web Services, ensuring improved performance and scalability.
* Designed and optimized SQL Server databases, including the creation of tables, triggers, stored procedures, and views for data manipulation and retrieval.
* Configured and managed Jenkins for continuous integration and deployment pipelines, automating builds, and monitoring test results for Test and Production environments.
* Utilized AngularJS to develop dynamic front-end components, implementing features such as routing, dependency injection, and prototyping.
* Integrated Microsoft Message Queuing (MSMQ) for asynchronous messaging to streamline communication between services.
* Used Tortoise SVN for version control, managing branches, performing code merges, and ensuring collaborative development.
* Enhanced reporting screens and back-end processes, including fixing XML message errors and implementing new UI features to meet client requirements.
* Provided UAT support and facilitated smooth migration to production by troubleshooting and resolving critical issues.
* Collaborated in an Agile/Scrum environment, participating in sprint planning and delivering solutions within established timelines.

**Client: CSSI (Computer software & solutions International LLC), India Feb 2018 – Jun 2018**

**Software Engineer,**

* Gathered requirements, defined business rules, and performed system analysis based on MVC architecture in the SDLC process.
* Developed features for the .NET application using Sitecore CMS solutions, enabling efficient content management.
* Designed and implemented RESTful APIs using ASP.NET Web API to enable lightweight data exchange for MVC UI components.
* Created Razor views, layout pages, and partial views with MVC 4, C#, AJAX, jQuery, HTML5, and CSS3 for various modules.
* Collaborated with a cross-functional team including stakeholders, project managers, and developers to ensure smooth development and deployment.
* Integrated client-side validations and AJAX calls for improved UI functionality, using JSON for efficient data exchange.
* Designed and implemented database schemas, stored procedures, and SSIS packages to handle large-scale data migrations and transformations.
* Utilized NUnit for unit testing and employed the Moq library for isolating dependencies in test cases.
* Migrated web applications to Sitecore CMS System, ensuring a seamless transition with documented data transformations.
* Conducted functional testing of web services using SOAPUI.

**Client: Free Us, India. Aug 2016 – Jan 2018**

**Software Engineer,**

* Designed and implemented business logic to provide behavior change suggestions, peer group comparisons, and reduce out-of-pocket spending using C#.NET and Entity Framework.
* Developed a web application leveraging ASP.NET, HTML, CSS, AJAX, JavaScript, JQuery, Multithreading, and LINQ for dynamic functionality.
* Created and consumed WCF services for seamless registration processes and data integration.
* Applied authentication and authorization policies for application security, including encrypted signing, code access, and role-based security checks.
* Worked on ADHOC PL/SQL queries to generate metrics and support the Metric Management team.
* Conducted unit and integration testing using NUnit to ensure quality and functionality across modules.
* Developed HTML controls and server-side controls with custom ASP.NET Themes and CSS styles for consistent UI design.
* Collaborated with the team using Team Foundation Server (TFS) for version control and issue tracking.
* Researched and upgraded the application to the latest Microsoft technologies, including .NET Framework 3.5 and Visual Studio 2010.
* Provided 24x7 production support, addressing critical issues and ensuring system stability during testing phases.

**CERTIFICATIONS:**

* **Certified in Full Stack Development (MEAN, MERN, & .NET) by Udemy in 2019.**
* **Certified in Project Management by Great Learning in the year 2024.**
* **Certified in Hands-On Docker Tutorial for Beginners by Udemy in 2024.**