

Sampath Sai Varukolu | 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#, Java, 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. 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

Northern Arizona University, AZ

Aug 2023 - Dec 2024

Bachelor of Technology in Computer and Science

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

Jun 2008 - May 2012

TECHNICAL SKILLS:

Languages:	Python, C#, Java, C++, SQL, HTML, JavaScript, TypeScript
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, Spring Boot, 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:	JUnit, N Unit, JMeter, Smoke Testing, RTL, TFS Team Build
Methodologies:	ETL Workflows, Data Integration, Data Manipulation, DevOps, MVC, MVVM, MVP

EXPERIENCE:

Software Developer, Citi Group, USA

Oct 2024 - Current

- Led the development of an investment portfolio management application using React, Node.js, and Spring Boot, 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 Java and Spring Boot, 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.
- Integrated real-time financial data streams using WebSockets to enable dynamic updates in the investment portfolio management application, providing users with up-to-the-minute insights and improving decision-making capabilities.

Full Stack Developer, Tech Mahindra, India

Jan 2021 - Aug 2023

- 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.
- 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 WaveSurfer 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.

Full Stack .Net Developer, Yash Technologies India Pvt. Ltd, India**Apr 2020 – Jan 2021**

- 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 in 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.

Software Engineer, Techwave Consulting India Pvt. Ltd, India**Apr 2019 – Mar 2020**

- 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.

Software Engineer, JNET Technologies India Pvt. Ltd., India**Jun 2018 – Apr 2019**

- 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.

Software Engineer, CSSI, India**Feb 2018 – Jun 2018**

- 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.

- 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.**