Software Integration Architect
Position Category: Full Time
Location: Remote (Washington, DC)
Clearance: Top Secret

Company Profile

Systems Thinking & Solutions (STS) is a technical services company. Our mission is to apply scientific methods to advance the capabilities and utility of engineered systems. Our core capabilities include Systems Engineering and Technical services, system architecture, system integration, modeling and simulation, IT support services, and technical program management. We are a Virginia corporation conveniently located near Washington, DC.

Position Overview

We are looking for a Software Architect to design and lead the development of software integration solutions. The right person will be an excellent communicator with the ability to provide technical leadership in collaborations across multiple agencies and commercial performers. You will be responsible for defining the architecture for connecting external applications and services to our internal microservices-based application deployed in a classified government cloud environment. Your expertise in system design, security, and scalability will be critical to the success of our integration initiatives. This position will support programs at the Defense Advanced Research Projects Agency (DARPA) and other Department of Defense (DoD) agencies.   If you are passionate about solving complex challenges in secure environments, we encourage you to apply! This position is remote with the expectation of occasional travel and onsite support.

Core Responsibilities

- Collaborate with cross-functional teams, including DevSecOps, cybersecurity, and software engineering, to design and implement scalable, efficient, and secure integration solutions.
- Design and document robust integration architectures, leveraging modern patterns like Event-Driven Architecture, API Gateways, Message Queues, and Circuit Breakers.
- Implement integration protocols, including REST, gRPC, and message queuing protocols (e.g., MQTT, AMQP), to ensure seamless data exchange.
- Ensure that the integration architecture adheres to best practices for scalability, maintainability, and security, with a focus on cloud-native principles.
- Evaluate and select appropriate integration technologies and tools, keeping abreast of the latest industry trends and advancements.
- Provide technical leadership in the adoption of modern architectural practices.
- Conduct thorough architectural reviews and ensure compliance with standards and guidelines.
- Create SysML/UML models to visualize and analyze integration architectures.
- Proactively identify and address complex architectural challenges, ensuring the delivery of high-quality solutions.

- Develop and maintain a comprehensive understanding of evolving integration technologies and standards.
- Contribute to the long-term roadmap of the integration platform and ensure that architecture can adapt to future requirements.

Requirements

- Active Top-Secret clearance with ability to obtain TS/SCI.
- Bachelor's or Master's degree in computer science, Software Engineering, or a related field.
- 7+ years of experience in system integration, cloud computing, and software development.
- Experience in software architecture and design, with a proven track record of delivering complex integration solutions.
- Expertise in modern architectural patterns and protocols, including Event-Driven Architecture, API Gateways (REST, gRPC) and message queuing systems (Kafka, RabbitMQ).
- Understanding of cross-domain solution requirements.
- Comprehensive knowledge of security best practices for cloud environments and integration solutions.
- Exceptional communication and presentation skills, with the ability to articulate complex technical concepts to diverse audiences.
- Proven ability to work with geographically dispersed technical teams, fostering a culture of innovation and collaboration.
- Demonstrated ability to solve complex technical problems and make sound architectural decisions.

Qualifications

- Bachelor's degree in systems engineering, Computer Science, or related field.

Additional Information

- Must be a U.S. citizen.
- May require occasional travel and onsite support.
- Position requires passing comprehensive background investigation.

Benefits

- Competitive salary based on experience.
- Comprehensive health, dental, and vision insurance.
- Retirement Plans: Safe Harbor 401(k), Profit Sharing, Cash Balance.
- Professional development and certification reimbursement.
- Paid time off and federal holidays.

STS is an Equal Opportunity Employer