Sri Sailesh

+1 253-324-3610 | srisailesh554@gmail.com | LinkedIn | GitHub | Portfolio
Seattle, WA

Education

University of Washington — Washington
Master of Science in Computer Engineering — *08/2023 – 03/2025*

Vignan's Lara Institute Of Technology And Science — India
Bachelor of Technology in Electronics and Communication Engineering — *07/2017 – 07/2021*

Experience

Software Engineer — 08/2021 – 07/2023
Wipro — *Aditya Birla Health Insurance*

- Developed and optimized high-performance RESTful APIs using Java and Spring Boot, reducing response times by 200 milliseconds per request and improving overall system efficiency.
- Integrated Hibernate with Spring Framework for efficient ORM-based database access, optimizing query performance by 40% and streamlining data handling.
- Designed and deployed microservices architecture for health insurance management, ensuring high scalability and availability using Spring Boot and AWS. Managed environment remediation protocols during deployments.
- Built and maintained full-stack web applications, integrating front-end interfaces using Angular with backend services built in Java Spring Boot, enabling complete user workflow support.
- Implemented CI/CD pipelines using Jenkins, Docker, and Kubernetes, reducing manual deployment efforts by 60%, and improving software delivery speed.
- Built comprehensive unit and integration tests using JUnit and TestNG, ensuring robust and bug-free application functionality. Demonstrated a strong understanding of the Software Development Lifecycle.
- Worked closely with product managers to enhance customer satisfaction through seamless user interface improvements, showcasing creativity and leadership.
- Managed multiple priorities effectively, showcasing time management and problem-solving skills in a fast-paced development environment. Applied debugging techniques to enhance system stability.

Projects

Microservices-Based Event Management Platform — Java, Spring Boot, Docker, Kubernetes, RabbitMQ, PostgreSQL

- Architected and implemented a scalable event management system using microservices architecture, enabling seamless handling of 10,000+ concurrent users with distributed transaction management.
- Leveraged Spring Boot, Spring Cloud, and API Gateway for service discovery and load balancing, achieving 99.9% system availability and fault tolerance through circuit breaker patterns.
- Implemented message queuing with RabbitMQ for asynchronous communication between services, optimizing system performance and ensuring data consistency during high traffic periods.
- Containerized the application using Docker and orchestrated with Kubernetes for automated scaling and deployment, reducing infrastructure costs by 25% while improving system resilience.
- Designed and implemented CI/CD pipelines using GitHub Actions and ArgoCD, enabling automated testing and continuous deployment with zero-downtime updates and version rollback capabilities.

ETL Pipeline — AWS Lambda, AWS S3, Aurora PostgreSQL, Java

- Designed an ETL pipeline leveraging AWS Lambda to transform and load large datasets into an Amazon Aurora PostgreSQL database, achieving faster data processing and reducing latency.
- Optimized the pipeline performance by incorporating batch processing and reducing data load time by 35%. Implemented error-handling mechanisms to ensure seamless data flow, applying debugging strategies for troubleshooting.
- Integrated AWS CloudWatch for comprehensive monitoring and alerting, implementing data quality checks and validation rules to maintain 99.9% data accuracy while handling over 500GB of daily data throughput.

AI-Powered Home Energy Management System — Python, MySQL, ReactJS, JavaScript

- Developed a smart home energy monitoring system that utilized AI algorithms to predict and optimize energy consumption, resulting in a 20% reduction in energy costs.
- Integrated real-time data from IoT devices using Python and MySQL for storing and processing energy consumption logs. Built an interactive dashboard for real-time visualization of energy usage patterns. Applied creative problem-solving to enhance the UI/UX.
- Implemented machine learning models using TensorFlow and scikit-learn for predictive analytics, enabling proactive energy management recommendations and anomaly detection with 95% accuracy rate.

Amazon Website — ReactJS, Node.js, Express, MongoDB

- Redesigned an Amazon-inspired e-commerce platform with an improved UI/UX and enhanced performance. Implemented creative solutions to optimize user interaction and product discovery.
- Implemented secure user authentication, order management, and real-time inventory tracking. Enhanced search functionality with optimized indexing for faster product discovery, ensuring security and national compliance.
- Developed RESTful APIs with Node.js and Express for seamless frontend-backend integration, implementing Redis caching to reduce database load by 40% and decrease average API response time to under 100ms.

Technical Skills

Languages: Java, Python, C++, C#, Bash, .NET
Front-End: JavaScript, TypeScript, HTML, CSS, ReactJS, Angular, NextJS, UI/UX, REST API
Back-End: Spring Boot, Node.js, Express.js, .NET Core, Django, Flask, GraphQL
Databases: MySQL, PostgreSQL, MongoDB, Firebase, Redis
DevOps and Cloud: AWS, Docker, Kubernetes, Jenkins, CI/CD, Terraform, Microservices