Siva Paleti

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LinkedIn | **github** | **My Portfolio**

PROFESSIONAL SUMMARY

Strategic Lead Architect with 5+ years driving high-throughput distributed systems, proven by engineering platforms handling 30M+ daily hits. Master of the full-stack (Spring Boot, Angular/React), Cloud-Native tools (AWS EKS, Terraform), and data management (SQL/NoSQL). Ensures system resilience via comprehensive Observability (Datadog, Splunk, ELK). Focused on elite quality and engineering leadership, evidenced by achieving 100% mutation coverage.

CORE TECHNICAL ARCHITECTURE

Strategic Domain	Technologies & Expertise
Cloud-Native & IaC	**AWS (EKS,Fargate,VPC, EC2, Lambda, S3, RDS, IAM,CloudWatch,CloudTrail,ECR, DynamoDB), GCP, Terraform, Kubernetes, Docker, Ansible, Auto Scaling**
Backend & Distributed Systems	**Java, Spring Boot, Node.js, NestJS, Python, Go, Microservices Architecture Design, RESTful APIs, GraphQL, gRPC**
DevOps, SRE, & Quality	**Jenkins, GitLab CI/CD, Bamboo, TDD, BDD, JUnit, Jest, Cypress.io, Pitest (Mutation Testing), Chaos Testing, Jmeter, Datadog, Splunk, Grafana, Kibana**
Messaging & Caching	**Kafka, RabbitMQ, AWS ElastiCache (Redis), Event-Driven Architecture**
Databases	**PostgreSQL, MySQL, Oracle, MongoDB, Cassandra, Aerospike, AWS RDS, IBM DB2**
Frontend	**Angular, ReactJS, React Native, TypeScript, JavaScript (ES6+)**

WORK EXPERIENCE

Software Engineer | *USAA* | Plano, TX | Sep 2024 - Present

- Designed and developed scalable RESTful APIs for Dwelling Policy Inquiry using Java Spring Boot, integrating with Guidewire and legacy systems, and deployed on AWS EKS with infrastructure automated through Terraform.
- Implemented advanced testing frameworks with JUnit, Pitest, Postman, and Taurus/JMeter, achieving 100% unit and mutation coverage and automating results integration into GitLab CI/CD pipelines and Jira workflows.
- Enhanced performance and reliability by leveraging AWS ElastiCache (Redis OSS) for distributed caching, integrating Datadog and Kibana ELK for real-time monitoring and proactive issue resolution.
- Enhanced performance and resilience by implementing circuit breaker patterns and retry mechanisms to handle failures gracefully and ensure high availability of APIs under intermittent faults or downtime.
- Debugged issues using cloud tools such as Grafana, Prometheus, Kibana, Splunk and others.
- **Architected** and deployed high-performance, fault-tolerant APIs supporting **over 30 million daily consumer hits** across critical Policy Inquiry systems, optimizing throughput under sustained heavy traffic.
- Authored low-level design documents and artifacts to define workflows, component interactions, and system dependencies for new feature implementations.
- Led the offshore team in implementing critical features, providing technical guidance, resolving blockers, and ensuring timely delivery of high-quality solutions.

Senior Full-Stack Developer | *Broadridge* | Coppell, TX | July 2023 - Aug 2024

- **Led** the full lifecycle migration of a legacy Struts monolith to a cloud-native **Spring Boot Microservices architecture**, significantly improving system performance and scalability
- Re-engineered front-end components using Angular 13, optimizing the application's modularity and maintainability, expediting feature development, and improving user experience
- Leveraged an SQL-based relational database architecture to ensure data integrity and consistency across all microservices, supporting seamless data handling and high-performance queries in the AWS cloud environment.

- Designed and deployed AWS cloud solutions (EC2, ECS, S3, RDS, EBS) with Elastic Load Balancing and Auto Scaling groups to ensure application resilience and scalability.
- Integrated MuleSoft to streamline connections with backend services, which sped up response times for key transactions, a major factor in enhancing user experience.
- Built and maintained a CI/CD pipeline with Jenkins and Kubernetes, using containers for smoother deployments and reduced downtime during releases, which improved team efficiency and application uptime.
- Optimized the adaptability of the UI for different screen sizes, which reduced the UI compatibility issues by 25%
- Led a team of interns in implementing a proposal category service using AWS lambda enabling existing services and web client to control alerts. Additionally, supervised the entire redesign of the user account page on the website.

Software Engineer | *Broadridge***| coppell, TX | February 2022 - Jun 2023**
- Developed high-performing APIs using GraphQL and Spring Boot, improving data flow and enabling smooth integration with third-party systems. Worked closely with external vendors to ensure technical alignment, successfully enhancing the performance of microservices architecture.
- Integrated Spring Boot with MySQL using Spring Data JPA,replacing older persistence layers to optimize database interactions while adhering to JPA/Hibernate standards. Improved data consistency and query performance through efficient handling of relational database operations.
- Developed and maintained Proxy Votes web and mobile applications using Angular, JavaScript, TypeScript, and jQuery, allowing shareholders to cast votes seamlessly online.
- Developed unit tests using Mockito as part of Test-Driven Development (TDD) practices, improving code quality and maintaining comprehensive test coverage.

Software Engineer Backend | *Capital One* **| Plano, TX | Aug 2021 - Dec 2021**
- Created gRPC APIs to seamlessly integrate with external vendors, while employing NestJS migrations for establishing structured database schemas on the server side. Proficiently utilized new TypeScript features such as block scope, type constraints, decorators, arrow functions, classes, interfaces, and modules.
- Orchestrated the adoption of a Microservices architecture within the NestJS framework. Coordinated the interplay of Microservices via a mix of RESTful interfaces and Kafka message brokers. Ensured extensive unit test coverage through a test-driven development approach.
- Worked in the quoting domain, responsible for providing quotes for different insurance products to all customers visiting the website, handling an average of 87,000 monthly visits.

Java Developer | *Ennoble Technologies* **| Hyderabad, IN | Sep 2018 - Nov 2019**

- Designed and implemented an architecture combining Spring MVC and Hibernate (JPA) for MySQL and Oracle databases, which led to a 40% decrease in query response times for REST and SOAP-based web services
- Developed an authentication system using OAuth 2.0, enhancing security and reducing user-facing errors. Created REST APIs and microservices with the Spring framework using Eclipse IDE, achieving a 20% reduction in API response times.
- Orchestrated CI/CD pipelines using Jenkins, streamlined containerization with Docker, and optimized build processes with Maven, enhancing deployment efficiency.
- Contributed to the migration of a microservice-based Fitness application from the .NET framework to Java Spring Boot, resulting in a 30% increase in performance and user satisfaction.

EDUCATION
- **State University of New York (SUNY) at New Paltz, NY | Master of Science in Computer Science**
- **KL University, India | Bachelor of Technology in Computer Science**