**Sunil Kumar Sahu**  
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**PROFESSIONAL SUMMARY**

Software Engineer with 7 years of experience in Full Stack Development and 3 years in DevOps. Proficient in designing and developing micro-services, implementing CI/CD pipelines, and deploying scalable applications using cloud-native technologies. Expertise in Java, Spring Boot, React js, and DevOps tools like Kubernetes, Docker, and AWS. Strong understanding of system architecture, security protocols, and automation with a passion for continuous integration and deployment.

**TECHNICAL SKILLS**

* **JAVA**: oops, Collections, JVM, Annotations, Java Reflection, multithreading, Exception handling, Functional interface, streams, Lambda function, design patterns
* **SPRING BOOT**: spring core, Spring data jpa, Spring aop, Spring mvc, Spring boot
* **SPRING CLOUD**: Micro-services, config server, Api gateway using spring cloud gateway, client side load balancing using spring cloud load balancer, Service discovery using Eureka server, Eureka client, Circuit breaker using Resiliency4j, Feing client
* **SPRING SECURITY**: JWT token authentication, role based authorisation, Oauth (auth code grant and client credentials)
* **KAFKA**: spring boot and Kafka integration for asynchronous micro service communication.
* **JAVASCRIPT**: Asynchronous Programming, Closures, error handling, event loop, web api, Arrays and objects
* **REACT JS**: React router dom, React Redux and redux toolkit, axios, react hooks, Authentication and Authorisation with spring boot back end, JWT token
* **Databases**: SQL (PostgreSQL, MySQL), DynamoDB
* **DOCKER**: Docker file, Docker Images, Docker Containers, Docker Networking, Docker Volumes, Docker Registry, Docker Security
* **KUBERNETES:** deployment, services, replicas, ingress, RBAC - access management, config map, config secret, volumes, autoscaling
* **ISTIO**:Monitoring, tracing using Kiali and Jaeger, Envoy poxy, Dark releases, circuit breaker, authorisation, security - mutual tls, canary deployment, fault injection - chaos testing, istio gateway, istio ingress, virtual service - routing rules, destination rules, session stickiness
* **AWS**: Networking, IAM, Route 53, Security, AMI, EC2, Load balancer, S3, RDS, Dynamo db, Cloud front, Lambda - server less, ECS, EKS, Cloud watch
* **TERRAFORM**: state management, backend, registry, modules, data sources, variables, workspace, Provisioners
* **JENKINS**: Declarative pipeline, Distributed builds, workflow, plugins, AWS Ec2 integration, Auto scaling, Secret Management, docker integration
* **LINUX**: file system, file management, user management, package manager, SSH and Secure Communication, Shell Scripting, Service Management
* **ArgoCD**: Gitops workflow using Argo CD
* **Monitoring**: Prometheus, Grafana, Kiali, Jaeger

**PROFESSIONAL EXPERIENCE**

**Software Engineer | CDK GLOBAL**

*FEB 2021 – Present*  
Technologies: Java, Spring Boot, Microservices, Kafka, React js, Docker, Kubernetes, Istio, AWS (EKS), Terraform, ArgoCD, Jenkins, Istio

* Led backend development of micro-services-based architecture using Spring Boot and Kubernetes implementing CQRS and SAGA patterns for distributed transaction management.
* Developed frontend UI components using React js, implementing Redux for state management and integrating with backend APIs secured via JWT.
* CI/CD pipelines using Jenkins, ensuring smooth and automated deployments to AWS EKS.
* Designed and implemented scalable infrastructure as code (IaC) with Terraform to provision and manage AWS resources (EC2, S3, RDS, IAM, Route 53, Lambda).
* Optimised application performance and scalability using Docker containers, Kubernetes, and ISTIO for service discovery, load balancing, and monitoring.
* Integrated Apache Kafka for event-driven communication between micro-services
* Enhanced application security by implementing OAuth2, JWT authentication
* Managed GitOps workflow using ArgoCD for seamless continuous deployment.

**Projects:**

1. **Drive Flex**: Led modernisation of a legacy SAAS platform for automobile dealers and customers, implementing micro-services and integrating with React js frontend and Kafka..
2. **Mod Tools**: Developed a tool for tracking and monitoring data migration from legacy to modern databases, employing micro-services architecture and Spring Cloud.

**Software Engineer | Birlasoft**

*April 2018 – Feb 2021*  
Technologies: Java, Spring Boot, Micro-services, React js, Spring Cloud, Kafka, Docker, Jenkins

* Designed and implemented micro-services using Spring Boot, Spring cloud focusing on creating highly available and fault-tolerant applications.
* Worked on both frontend and backend components, ensuring seamless integration between Java-based backend and React js frontend.
* Implemented SPA frontend using React js, Reach Redux and Bootstrap

**Projects**:

**PayMyProvider**: Contributed to a B2B payment integration system enabling secure payments for healthcare providers, using Spring Boot, micro-services, and React js.

**EDUCATION**

**Master in Computer Applications** under Biju Patnaik University of Technology.