



Osanda Dileepa Wedamulla

📍 Sri Lanka 📍 Colombo, Sri Lanka 📞 +94771544729 ✉ osanda1989@gmail.com
🌐 <https://www.linkedin.com/in/osandadileepa>

Profile

Experienced Full Stack Software Engineer with 8+ years in the software industry. Proficient in requirement analysis, design, implementation, testing, and management of complex software applications, ensuring strict up-time adherence. Committed to delivering enterprise-level software solutions with exceptional performance. Driven by a passion for technical innovation, consistently creating world-class software applications and products. Demonstrated expertise in automating and optimizing operations, streamlining processes, and developing tools for deployment, monitoring, troubleshooting, and issue resolution across all development stages and production environments.

Most Relevant Work Experience

04/2021 – present
Colombo, Sri Lanka

Senior Full Stack Developer - Team Lead V Fullstack (Private) Limited

- Prioritized delivering new features and attend to critical bug fixes for the existing application with Scrum and Kanban based development approaches.
- Leveraged Spring Cloud technologies and associated libraries for the development of microservice-based web applications.
- Designed web applications using Spring Boot WebFlux with reactive endpoints to deliver highly efficient, fully optimized RESTful web services.
- Wrote test cases with JUnit, Mockito, Testcontainers, Spring MVC Test, Spring Test Context Framework and SpringBoot Test.
- Integrated SonarCube, CheckStyle and PMD based static code analyzers in CI/CD pipelines to provide best code practices and code quality.
- Orchestrated centralized authentication with KeyCloak for different clients and realms to manage OIDC login across multiple applications (GitLab, Vault, Harbor, etc.)
- Deployed and managed applications on on-premises Kubernetes clusters, overseeing internal and external access management. Utilized Kubernetes, Helm and ArgoCD for efficient deployment and maintenance of production-ready applications.
- Automated Docker image creation, publishing, and deployment through CI/CD pipelines.
- Wrote, executed, and managed Bash and shell scripts to automate various tasks and related activities.
- Analyze and troubleshoot issues with virtual machines attached to different Storage when creating Oracle databases with different versions.

12/2015 – 03/2021
Colombo, Sri Lanka

Software Engineer / Sr. Software Engineer Remote Sensing Metrics Asia (Pvt) Ltd.

- Led design, architecture, and development of all web applications throughout the entire software development lifecycle, ensuring successful deployment.
- Developed and maintained dynamic web applications by integrating multiple data feeds from various sources using technologies such as Spring Boot, Java,



Most Relevant Work Experience

Angular, MySQL, PostgreSQL, MongoDB and Redis.

- Utilized Spring Security, OAuth2, Keycloak, and other security adapters to effectively manage access control across applications. Implemented a centralized authentication server JBoss/Keycloak with spring boot adapters for secure hosting on AWS servers.
- Actively contributed to the development and maintenance of projects, including database modification and optimization, service enhancement, and integration of front-end changes.
- Oversaw the migration process of all applications to the AWS environment and successfully resolved any production issues that arose.
- Collaborated with relevant parties to create disaster recovery plans, ensuring the smooth operation and stability of products.
- Monitored the deployment of applications on Amazon Web Services, promptly providing solutions for any production issues that occurred.



Technical Skills

- LANGUAGES AND FRAMEWORKS

Java(8, 11, 15, 17)



AngularJS/Angular2+



HTML/CSS



Shell/Bash Scripting



JavaScript/TypeScript



Rust



Python



Spring MVC/Boot



Spring Cloud



Hibernate/MyBatis



OpenAPI/Swagger



WebFlux



Flyway/Liquibase



Resilience4j



Apache Kafka/RabbitMQ



Karate Tests



- DATABASES AND ORM

MySQL



PostgreSQL



MongoDB



Redis



R2DBC (MySQL,Postgres)



BlazeGraph (RDF)



OracleDB



- METODOLOGIES AND PRINCIPLES

REST



Git(GitHub,Bitbucket)



Scrum



HTTP/2 Protocol



SSL



Reactive Programming



GraphQL



Functional Programming



- DEVOPS TECHNOLOGIES

CI/CD (GitLab, Bitbucket)



Docker/Kubernetes



Ansible



Hashicorp Vault



- CLOUD INFRASTRUCTURE

AWS



DigitalOcean



Linode



GCP





Development Experience

- Proficient in intercommunication between microservices through RESTful APIs using industry standard tools and frameworks such as RestTemplate, WebClient and FeignClient.
- Using Karate Test, integration testing framework for end to end REST API testing.
- Created CI/CD pipelines with automate tests and proficiently managed the creation, publication, and maintenance of Docker images, integrating robust vulnerability scanning and adhering to industry best practices to ensure the security and integrity of deployed applications.
- Familiarity with DevOps practices, including deploying Java, Spring Boot and Angular web applications using Maven, Gradle, Node, Docker and other relevant tools.
- Deployed and Monitored applications in AWS production environments, leveraging AWS CLI, CloudWatch, RDS (MySQL, PostgreSQL), EC2, EKS, ECS, ECR, and S3.
- Implemented Docker file to create docker images with single and multi-stage Docker builds for applications with different environment configurations.
- Developed, managed, and deployed microservice and Monolithic based applications using Spring Boot and Spring Cloud (Eureka, API Gateway, Config Server, Resilience4j, Seluth)
- Developed RESTful stateless web services with Reactive Web (Flux and Mono) approach with Spring Boot and expose REST API with JWT authentication and authorization.
- Managed production SSL certificates and automated renewal process with Lets Encrypt.
- Integrated Kafka and RabbitMQ messaging with Spring Boot applications for efficient real-time data processing following event-driven architecture.
- Utilized Ansible configuration management to maintain and monitor Linux based servers with parallel shell script execution, private key based access management, file transfer, service management and package installation and update.
- Developed customized Ansible Modules and Roles with Python for streamlined automation of repetitive workflows and task automation.
- Oversaw server virtualization through OVM and OLVM based virtualization manager.
- Maintained, managed and monitored Kubernetes cluster and it's related applications and services using tools like Prometheus, Grafana and Linkerd.
- Used ELK stack to capture, manage and visualize logs to provide insights to activities.



Achievements

- Achieved a 90% increase in productivity by automating repetitive tasks, including testing, deployment, and monitoring, while streamlining CI/CD pipelines. This resulted in a faster time to market for software releases, enhancing operational efficiency, and enabling the team to focus on high-value activities
- Implemented efficient logging and monitoring solutions, providing real-time insights into application performance, troubleshooting, and capacity planning which led to 80% decrease with time in terms customer support response and developer troubleshooting.
- Implemented performance optimizations resulting in a 70% reduction in application response time.
- Introduced industry best practices in security, scalability, and DevOps practices, resulting in 70% improved code quality, system reliability, and overall performance of deployed applications.



Education

10/2010 – 03/2016
Belihuloya, Sri Lanka

Special Degree in Computing And Information Systems | Bachelor of Science

Sabaragamuwa University of Sri Lanka

- GPA : 3.42 / 4
- Specialized Fields: Advance Software Engineering, Distributed Systems Architecture, Computer System Security