Mohiadeen Ameerkhan

Staff Software Engineer (DevOps & Backend)

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Technical Skills:

- Cloud Platform: **Microsoft Azure**, AWS, **Node Js**
- Cloud Services: **EKS, SQS, SNS, Lambda, S3, Faregate, EC2, RDS, CloudFront, CloudWatch, Elastic BeanStalk, Route 53**
- Container Technology: **Kubernetes, Docker, OpenShift**
- CICD Software: Jenkins, Maven, Gradle, **Artifactory**, **Ansible**, ArgoCD, GitHub Actions
- **Infrastructure as Code (IaC)**: Terraform, Ansible (highly familiar)
- Monitoring tools: **Splunk, Dynatrace**, Elasticsearch, **Grafana, Promethius**
- Languages: Java, JSP, JavaScript, Shell Script, Bash, Python, PLSQL, Bootstrap 5
- Java/Js Framework: **Spring Boot**, Spring Components, Spring Config server, Hibernate, JPA, jQuery, React Js,
- Testing Framework: Junit, TestNg, Selenium
- Architecture: Microservices, Monolithic, Web Services, Apache **Kafka**
- Databases: Oracle, MS SQL, Postgres, MySQL, MongoDB, Cosmos DB, CloudantDB, Redis, Elastic Search, Cassandra
- Management Software: Service Now, Jira, Remedy
- Version Control: Git, GitHub, Stash
- Application Servers: **WebSphere**, **Liberty**, Apache Tomcat embedded Server
- Domain: Health Care, Insurance, eCommerce
- Methodologies: Agile, Waterfall
- Application Software: IntelliJ, Eclipse, RAD, PL/SQL Developer, Postman, Oracle SQL Loader

Certifications:

- **CKAD**: Certified Kubernetes Application Developer, Dec 2023
- Confluent Kafka: Confluent Fundamentals Accreditation, Aug 2023
- Microsoft Certified: **Azure DevOps Engineer** Expert, Jan 2022
- Microsoft Certified: **Azure Developer** Associate, Dec 2021
- Oracle Certified Professional, Java SE 6 Programmer

Professional Summary:

- Seasoned Software Engineer with 13 years of total experience and 6-7 years of expertise in designing and maintaining CI/CD platforms, Kubernetes-based deployments, and GitOps practices. Proven ability to automate software delivery pipelines, improve deployment frequency, and mentor teams. Strong technical acumen in Kubernetes, ArgoCD, GitHub, and Linux system administration, coupled with a passion for innovation and continuous improvement.
- **13+ years** of professional experience in IT industry with hands as Java backend engineer (**Coding, Design, Testing, Build & Release automation Environment & Deployment)** of **Java** applications.
- Led the **architectural design** and implementation of enterprise-level Java applications, ensuring scalability, reliability, and performance.
- Implementation of **DevOps** and **DevSecOps** principles focused on automated testing, continuous delivery.
- Designed and developed a robust **continuous delivery platform**, enhancing software delivery frequency and reliability.
- Implemented Kubernetes-based deployment strategies using **GitOps** practices (ArgoCD).
- Automated application deployments and lifecycle management with ArgoCD, reducing manual intervention by **40%**.
- Optimized and automated CI/CD pipelines using **GitHub Actions** and modern tooling.
- Collaborated with cross-functional teams to integrate new services seamlessly into the delivery pipeline.

- Leveraged following AWS cloud services like RDS, Amazon Arora, EC2, S3, Lambda, Elastic Load balancer, Route 53, **AWS SAM**, AWS Cognito, Dynamo DB, Document DB, ECS, EKS, Cloud Front etc.
- Worked on AWS Packaged infrastructure service like Fargate, AWS Lambda, Elastic Beanstalk and LightSail
- Worked on AWS Deployment orchestration service like, Code commit, Code Build, Code Deploy, Code Pipeline
- Worked on **Java 21** and SpringBoot 3.2.0 to leverage **Virtual Threads** via which enhanced application performance and heap usage reduction by over 50%.
- Implemented **scalable solutions** using technologies such as **Kafka, Java/Spring Boot, MS SQL/Postgres/Oracle, Docker, Kubernetes, Jenkins** & **GIT**.
- Actively involved in developing new Java applications and upgrading existing ones, significantly **reducing the workaround time** for production issues, and improving overall system reliability.
- Proficient in Jenkins configuration, and maintenance for CI and automation of builds and deployments. Created **Jenkins CI/CD** pipelines.
- Provided technical guidance, defined functional designs, maintained development processes, and played a pivotal role in Legacy **Application Modernization**, upgrading monolithic apps to modular monolith or Microservices based app.
- **Optimized** critical **algorithm**, Data Structures and implemented **parallel processing**, resulting in a 25 to 30% reduction in task processing time.
- Played a key role in system **performance**, ensuring optimal functionality and responsiveness of applications.
- Collaborated with cross-functional teams to design and implement application/product features, contributing to enhanced functionality.
- Demonstrated proficiency in traditional application languages such as Java and scripting languages like **Bash** and **Python**.
- Applied several **rapid prototyping techniques** to streamline the development process, resulting in accelerated project timelines.
- Implemented **microservices** applications based on Spring Boot, Spring Batch, and Cloud-Native architecture and hosted applications in **Amazon Elastic Kubernetes Service** (EKS), Azure Kubernetes Service (**AKS**) and **OpenShift** for On-prem deployments. Leveraged Jenkins CI/CD pipelines for seamless software delivery. Integrated **SonarQube** for code quality analysis and implemented monitoring through **Spring Boot Actuator**.
- Worked on Migrating batch components written in Mainframe to Java using Spring boot Batch framework.
- Gained proficiency in web technologies, including HTML, CSS.
- Implemented cloud computing technologies, including SaaS, IaaS, and PaaS, to enhance scalability and flexibility, I have done it, in both Azure and AWS
- Designed a **Kafka-powered backend service** following the **CQRS** model for real-time data streaming to integrated UIs.
- Experience in Database Migration and heavy load transactions using **Spring Batch**
- Successfully containerized a legacy application running on Onprem servers using **Docker** and seamlessly migrated it to **EKS** (Amazon Elastic Kubernetes Service) and AKS.
- Led a major modernization effort, **upgraded over 50 legacy Java web applications** from Java 6 to Java 8, then to Java 11, followed by Java 17 and Java 21. Leveraged tools like **GitHub, Artifactory, Maven** & **Jenkins** for version control, artifact management, & CI/CD.
- Experience in implementing dynamic web applications using **IBM Liberty, WebSphere**, and **Apache Tomcat**.
- Good Experience in **Shell scripting** in Unix/Linux environments to automate the manual work on the file systems.
- Experience in working in cloud computing platforms Such as **Microsoft Azure** and **AWS**

Experience:

Role: Staff Software Engineer (DevOps & Backend),
Employer: Tp-Link Systems Inc, Irvine, CA (Oct 2024 to Present)

- Proposed a plan to upgrade the whole echo system from Linux to ARM based EC2 instance, to get the same (or better) performance for a lower cost and reduce Opex as ARM instance consume less power.
- Retrofitting existing system to leverage ArgoCD and GitOps principal process.
- Implemented a DIY sharding in Postgres DB using Apache ShardingSphere in Spring boot to improve the scalability, performance by distributing data across multiple servers, that too in MySQL/Postgres DB
- Proposed an approach to modernize the whole Tp-Link echo system from Java 8 to Java 21, leveraging Spring boot 3.x, Httpclient5 with all latest standard open-source library recommended via nexus

Role: Senior Cloud Java Backend Engineer,
Client: Kaiser Permanente,
Employer : TCS, Pasadena, CA (Mar 2018 to Present)

- Designed and developed a robust **continuous delivery platform**, enhancing software delivery frequency and reliability.
- Implemented Kubernetes-based deployment strategies using **GitOps** practices (ArgoCD).
- Automated application deployments and lifecycle management with ArgoCD, reducing manual intervention by **40%**.
- Optimized and automated CI/CD pipelines using **GitHub Actions** and modern tooling.
- Collaborated with cross-functional teams to integrate new services seamlessly into the delivery pipeline.
- Enforced security best practices throughout the delivery process, ensuring compliance and secure deployments.
- Mentored and provided technical leadership to a team of junior engineers.
- Leveraged **monitoring and logging tools** (Prometheus, Grafana) to improve visibility into deployment health and performance.
- Implemented **scalable solutions** using technologies such as **Kafka, Java/Spring Boot, Node Js, MS SQL/Postgres/Oracle, Docker, Kubernetes, Jenkins** & **GIT**.
- Upgraded applications from **Java 11** to **Java 17** and finally to **Java 21** to leverage **Virtual Threads** supported by SpringBoot 3.2.0 and above.
- Implemented **microservices** applications by applying REST API and plugin architecture based on Spring Boot, Spring Batch, and Cloud-Native architecture and hosted applications in **Amazon Elastic Kubernetes Service** (EKS), **Azure Kubernetes Service** (AKS) and **OpenShift** for On-prem deployments. Leveraged Jenkins CI/CD pipelines for seamless software delivery. Integrated **SonarQube** for code quality analysis and implemented monitoring through Spring Boot Actuator.
- Leverage Amazon and Azure cloud service such as Amazon Elastic Kubernetes Service (**EKS**), AKS, Azure, AWS SQL/Postgres Db and deployed microservice or modular monolithic based containerized applications into AWS/Azure.
- Played a pivotal role in the **Legacy Application Modernization** initiative by migrating monolithic applications to Modular monolith or Microservice-based architecture. Successfully transitioned legacy Spring MVC framework and Hibernate applications to modern Spring Boot, Spring batch and Spring JPA, resulting in improved scalability and maintainability.
- Led the migration of applications from On-prem servers to EKS, AKS in AWS and OpenShift for On-prem deployments. Utilized Kubernetes and various Azure, AWS services to ensure a seamless and efficient migration process.
- **Optimized** critical **algorithm** and implemented **parallel processing**, resulting in a 25 to 30% reduction in task processing time.
- Actively involved in developing **new Java applications** and **upgrading existing ones**, significantly reducing the workaround time for production issues, and improving overall system reliability.
- Configure, deploy, and administer Windows, Linux, AWS EKS, and containerized systems.
- Define and maintain all aspects of development from approved technology and workflow.
- Provide technical guidance to the Engineering team.
- Applied several **rapid prototyping techniques** to streamline the development process, resulting in accelerated project timelines.
- Defined functional designs and application systems architecture.
- Assist in the Design and Development of Products and features.
- Designed a **Kafka-powered backend service** following the **CQRS** model for real-time data streaming to integrated UIs.
- Developed and upgraded tools to **minimize workaround time** for production issues, enhancing defect analysis.
- Worked on Migrating batch components written in Mainframe to Java using **Spring boot Batch framework** leveraging ItemReader, ItemWriter & ItemProcessor.
- Configured multiple **monitoring metrics** for alerting issues before having a hardline impact on end users.
- Overseen **Infrastructure & application monitoring**/support, managed service level agreements, & implemented automation.

Role: Senior Cloud Migration Engineer,
Client: Kaiser Permanente
Employer: TCS, Pasadena, CA (Jan 2016 to Mar 2018)

- Played a pivotal role in the **Legacy Application Modernization** initiative, **migrating monolithic applications** to a Microservice-based architecture. Successfully migrated legacy Spring framework and Hibernate applications to modern Spring Boot and Spring JPA, resulting in enhanced scalability and maintainability.
- Led the migration of applications from On-prem servers to EKS in AWS, AKS in Azure and OpenShift for On-prem deployments. Leveraged Kubernetes and multiple AWS cloud services to ensure a smooth and efficient migration process.
- **Optimized** critical **algorithm** and implemented **parallel processing**, resulting in a 25 to 30% reduction in task processing time.
- Leveraged **Spring Config server** and migrated all app related configuration to Config server, which minimalized the redeployment/restart due to config changes.
- Proficient in **Jenkins** configuration, and maintenance for CI and automation of builds and deployments. Created Jenkins CI pipelines.
- Got exposed to Kubernetes, multiple AWS and Azure Cloud Services, and standard processes for implementation.
- Owned implementation and maintenance of CI/CD pipelines and Cloud infrastructure
- Led the modernization of 50+ legacy Java web applications, transitioning from Java 6 to Java 11. Utilized tools like GitHub, Artifactory, Maven, and Jenkins for version control, artifact management, and CI/CD.
- Containerized a legacy application on Onprem servers using **Docker** and migrated it to EKS (Amazon Elastic Kubernetes Service) and AKS successfully. Implemented automated testing using Junit, TestNG, Mockito and Selenium.
- Migrated data from different DB via **Spring Batch** leveraging Spring Batch Item reader, Item Writer, and Processor.
- Leveraged **Spring WebFlux** in building reactive and scalable systems. Proficient in leveraging reactive programming concepts such as Mono and Flux for asynchronous request handling.

Role: Senior Software Developer, SRE
Client: T-Mobile
Employer: TCS, Chennai (Feb 2014- Jan 2016)

- Developing new tools and upgrading existing ones to minimize workaround time for production issues and enhance defect analysis using Java 8.
- Developed web applications using SpringBoot and Oracle Database, leveraging PL/SQL procedures for backend batch processing.
- Overseen Infrastructure and application monitoring / support, manage service level agreements and implement automation.
- Implementing timely production changes to address system issues efficiently.
- Managing and coordinating Problem Management, Release Management, Business Analysts, Testers, Developers, DBA, and other stakeholders.
- Resolving **TRO** tickets created via **Nexus** and **WhiteHat**.
- Ensured program adherence to standards during construction and modification.
- Automated testing processes with Selenium and TestNG.
- Implemented file loading automation for efficient processing of large data sets using SQL Loader.

Role: Software Developer,
Client: Target
Employer: TCS, Chennai, India (Nov 2011 to Feb 2014)

- I rotated through two different teams during a two-year long technology rotational program. I was able to dive into implementing scalable solutions using technologies such as Java/SpringBoot, SQL/Postgres/Oracle/DB2 and GIT.
- Designed a web application using Spring MVC, Struts 2, MS SQL, and PL/SQL for backend batch processing.
- Proficient in understanding client requirements and coordinating for clarifications.
- Skilled in project planning and monitoring.

- Coordinated and communicated effectively with onsite teams.
- Conducted comprehensive reviews of UTP, code, and test results, while preparing detailed test plans.
- Analyze the **Splunk & Dynatrace (Grafana and Promethius)** logs to search, monitor, and examine issues.
- Identify all **single points of failure** and configure the necessary monitoring to ensure failure events gets logged and alerted before having a hardline impact on end users.
- Configured multiple **monitoring metrics** for alerting issues before having a hardline impact on end users.
- Overseen **Infrastructure & application monitoring**/support, managed service level agreements, & implemented automation.
- Developed and upgraded tools to **minimize workaround time** for production issues, enhancing defect analysis.
- Managed **Problem Management, Release Management**, and coordinated stakeholders.
- Provided clarifications on business queries related to production transaction processing logic.
- Resolving **TRO** tickets created via **Nexus** and **WhiteHat**.

Education:

Bachelor's Degree in Electronics and Communications Engineering, 2007 to 2011
Sri Krishna College of Engineering, Anna University, India