



JAGADEESH POSNI

Software Engineering Consultant, Java, Cloud-Native
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WORK HISTORY

Department for Work and Pensions | Feb 2022 to Present day

Senior Software Engineer

- Created a re-usable audit framework to onboard different microservices across the dept into auditing requests and responses which reduced the implementation costs and time by 75%.
- Improved the scalability of these modules by 90% - concurrent load handled by the service from 100k to 1million – using reactive programming model of spring.
- Iteratively improved the reliability of the audit framework to scale from 100k to 4 million audit events on AWS SQS by enabling the horizontal pod autoscaling using multiple external metrics.
- Member of department level senior engineering steering group where some of most challenging design and architectural choices are made and brainstormed.
- Advocated for Test driven development and Behavior driven development
- Fixed multiple security issues to address industry level vulnerabilities like OWASP top 10 security risks and common vulnerabilities and exposures

Java, spring, AWS Lambda, Cognito, gitlab pipelines, Docker, Kubernetes, EKS, ingress, helm deployment, PGP encryption, Grafana, Prometheus

Gap Inc. | Feb 2019 to Jan 2022

IT Manager

Cloud migration, Checkout Services in online buy, Performance Engineering, Build Highly scalable products in retail domain, Peak readiness, Dev-ops mindset

Managed team of 8 Engineers and fully rolled out re-design implementation of checkout services (from a beastly monolith to microservices based architecture) which allowed **flexible scaling, cost optimization by 40%** and skyrocketed **developer productivity**.

- Part of core engineering, architecture, and decision-making team to migrate the whole website for all brands from on-premises to Microsoft azure cloud.
- Re-written micro-service applications from on-premises to Microsoft Azure cloud using technologies like Spring boot, RESTful API / Web services, Apache Kafka which reduced the cost by 30%.
- Monitoring the traffic of the checkout web services using SaaS tools like New Relic, Splunk, Grafana which contributed to high availability and effective monitoring.
- Built a team from scratch and enabled load testing and scaling up all the backend services of the retail website during COVID-19 pandemic which helped assess and finetune the website during peak.
- Azure Expertise - Demonstrated proficiency in Azure Key Vault, Azure Pipelines, Azure App Services, and Managed Identities. Leveraged these technologies to enhance security and streamline deployment processes, resulting in a 30% improvement in deployment efficiency and a 25% reduction in security-related incidents.
- Apigee Security Enhancements: - Led initiatives to fortify Apigee security, including the creation of a Single Sign-On (SSO) enabled organization, establishing machine users, and developing a token generation framework. This framework, utilized by various applications to request Apigee tokens, contributed to a 20% increase in overall API utilization.
- Managed internal releases and played a key role in analyzing, defining, and assigning custom roles to both human and machine users in Apigee. This meticulous approach resulted in a 40% reduction in unauthorized access attempts, creating a more secure access control environment.

Java8, Spring boot, Microsoft Azure, Cosmosdb, PCF on Azure, Chef, Junit, Mockito, Cucumber, Azure App Service, Azure Functions, Azure Storage, CI/CD pipelines, Azure static websites

IBM India Pvt Ltd. | Aug 2017 to Jan 2019

Advisory Systems Analyst

Daas – Data as a Service

Unified data access framework for all the downstream users/applications. Acts like a bridge between entire data lake and consumers allowing them to have great agility, cost-effectiveness, and data quality.

- Researched, developed, and deployed into prod an algorithm to stream upload files of over 10 GB to Amazon AWS S3 cloud storage with limited resources on PCF like 500MB disk space and 1GB of RAM.
- Created a daemon application which updates the MariaDB cache, reading data from Apache hive for every configured amount of time using the cron scheduler service on PCF.
- Successfully integrated existing application from Impala to Hive on a new data platform and implemented Kerberos cross realm authentication so that system can switch to old and new big-data platforms.
- Coded the Python agent for DaaS to automate data download for non-technical clients.
- Developed data fetching algorithms using graphql api to retrieve data from different platforms which reduced the development effort by 90%.
- Migrated the framework to new CI CD platform using the devops toolkit(Jenkins, Bitbucket, Nexus repo, SonarQube).
- Engineered and deployed data ingestion spring boot micro-service modules into PCF for downstream applications.

Java, Python, spring boot, microservices, Amazon S3, GraphQL, Hadoop, Yarn, Impala, Hive, Apache Kafka, Spark, PCF

Multiple products in warehouse and supply chain management domain – Receiving in warehouse, Batch picking, Sorting, and Invoicing

- Extending IBM Sterling commerce Order management and Warehouse management systems which fit requirement of clients
- Understanding the advantages and implementing certain design patterns like factory, adapter etc. for specific requirements.
- Was assigned a lot of unit testing work by peers. Took the opportunity to excel at JUnit.
- Developed asynchronous Services using IBM Sterling to send every shipment/container XML to POET.
- Designed a zone batching algorithm to reading multiple tasks from database and creating the best batch of tasks for presenting the user.
- Implemented an algorithm to mark tasks coming from POET with “age” based on Date/Time for prioritization
- Got introduced to world of Clean Code and Test-driven development which transformed the way coding is done.
- Technical owner for go live activities and coordinated the System users, Business Users, Product managers onsite

Java, Spring 3, MyBatis, JavaScript, JUnit, Mockito, Web Services, Oracle10g, IBM Websphere MQ, Sterling WMS, JSP, JUnit, Mockito, Oracle 10g, XML, XSLT

SKILL SET

PROGRAMMING LANGUAGES	Java 17, Python, Ruby, Scala, Perl
TESTING FRAMEWORKS	Unit Testing with Junit, Mockito, Test Driven Development (TDD), Behavior Driven Development (BDD), Automation testing with Cucumber, Serenity, Selenium
FRONTEND	Javascript, Typescript, React JS, next.js, tailwind CSS, Mantine UI, React Charts
BACKEND	Spring boot, Spring data, Spring Rest, Spring batch, Spring cloud
CI/CD	Maven, gradle, git, gitlab, bitbucket, Jenkins, concourse,
AZURE	Azure App Services, Azure Static web apps, Azure logic apps, Azure DevOps, Azure resource manager, Azure key vault, Cosmos DB
AWS	AWS EC2, AWS S3, EKS, Cognito, IAM
CONTAINER ORCHESTRATION	Docker, Kubernetes
DATABASE	SQL, Oracle, MySQL, PostgreSQL, MongoDB, Redis
MIDDLEWARE	JMS, Apache Kafka, RabbitMQ, Apache Camel
WEB SERVICES	SOAP, RESTful APIs, REST APIs, Open API, Swagger
SECURITY	OWASP Top Ten, DDoS protection, SQL Injection, CSRF
PERFORMANCE	Apache JMeter, Gatling

EDUCATION

- **Graduation:** 2007-2011, Bachelor of Technology with 67.79% from Jawaharlal Nehru Technological University, Kakinada.
- **Pre-University:** 2005-2007, Intermediate M.P.C with 89.9% from Sasi Jr. College, Tadepalligudem.
- **Schooling:** 1990-2005, SSC with 84.1% from Kimberley E.M High School, Tadepalligudem.