# JAGADEESH POSNI

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## SKILL SET

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| **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 |

## SIDE/HOBBY PROJECTS

- Certified in Microsoft Azure Fundamentals and Azure AI Fundamentals. Click to verify
- A modern NextJS application to visualize HM Land Registry house price index by postcode and house type. Github
- Proof of concepts on end-to-end ML solutions – data preprocessing, feature engineering, model eval

## WORK HISTORY

**Department of Work and Pensions** | Jan 22 to Present                    SENIOR SOFTWARE ENGINEER

Integral part of the core implementation scrum team, contributing significantly to diverse projects. My key focus areas and achievements include:

- Designed and implemented a robust library utilized by over 30 applications, facilitating seamless onboarding to a cloud-based auditing framework that leverages AWS SQS for message queuing which handles a peak load of about 3.5million messages per day.
- Security and Update Management - Successfully addressed security vulnerabilities across applications, ensuring the continuous updating of applications to the latest standards. This proactive approach not only enhanced the security posture but also contributed to the overall resilience of the systems.
- AWS-Integrated Audit Framework - Architected an innovative audit framework leveraging AWS services. By generating audit events and seamlessly dropping them into AWS SQS, the framework facilitated the efficient storage of these events in AWS S3. This comprehensive solution not only streamlined the audit process but also reduced the time-to-insight by 35%, allowing for more rapid response to critical metrics.
- 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 an 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.Part of OS datahub ERP migration team and responsible for implementation and deployment of the services that support migration from Bfin to Bsin using Azure Cloud technologies.
- Implemented new features and enhancements, following best practices in front-end and back-end development.
- Worked with Azure services such as **Azure App Service, Azure Functions, and Azure Storage** for scalable and reliable application deployment and data storage.
- Configured CI/CD pipelines using maven as build tool and Azure DevOps toolkit for continuous integration and deployment of the applications deployed as azure app services.
- Implemented and deployed **Azure static web app holding pages** from within and outside datahub.
- Integrated front-end components using **React.js**, ensuring responsive and user-friendly interfaces.
- Troubleshot and resolved software defects and issues in a timely manner to ensure optimal application functionality.
- Worked in an Agile development environment, participating in daily stand-ups, sprint planning, and retrospective meetings.

**Gap Inc.** gap.co.uk |Feb '19 to Jan '22                                  SENIOR ENGINEER DEVOPS → TECH MANAGER

- Java developer in Backend and Coding Restful endpoints in **java 17** using Spring frameworks (**Spring boot, Spring REST, Spring DATA, Spring Cloud, Spring batch), JPA, Elastic search, mongoDB** for backend services of Checkout module.
- Practicing Test driven development(**TDD**), Behavior driven development(**BDD**) using technologies and frameworks like **Junit, Mockito, Rest Assured, Cucumber, Jbehave** etc and building a functional test automation frameworks.
- Hands on Continuous integration and continuous deployment (**CI/CD**) into multiple prod and non prod environments using devops toolkit git**, Jenkins, chef, kubernetes, terraform, ingress** etc.
- Hands on **Agile software development** practices like Functional analysis, Backlog refinement, Backlog prioritization, Story huddle with engineers, Review, Validation and Signing off user stories.
- Building micro-service applications and integration with internal and third party applications on cloud using middleware frameworks like **RabbitMQ, Apache Kafka**.
- Building highly scalable cloud-native applications by following **12factor** principles and deploying them to different cloud platforms like PCF, Azure, Amazon AWS that can withstand 200% of peak traffic.
- Developed highly scalable applications to withstand peak and holiday season traffic using cloud services like **Microsoft Azure, Cosmos db, Redis cache, Mongo db and relational SQL databases like MySQL/Mariadb**.
- Implemented a resilient layer for applications interacting with azure cosmos db for fast failures and recovery using spring retry and resilience4j.
- Implemented a multi-threaded highly scalable health check framework for monolith java5 applications using low level tools like semaphores, threads, static fields.
- 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.
- 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**.

**IBM** |July '17 to Feb '19                                                           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.
- Practised TDD and BDD and implemented pub sub mciroservices on PCF

## OSI Technologies | April '12 to July '17                    SOFTWARE ENGINEER

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 patters like factory, adapter etc. for specific requirements.
- Was assigned a lot of unit testing work by peers. Took the opportunity to excel at Junit and TDD.
- 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.