



KAUSHIK MANDAL

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Seeking a position of Lead Engineer to put 8 years of learnings into use to help the business meet strategic and operational goals by identifying opportunities to deploy new technology. Possess expertise in analytical thinking, cloud technologies and superior communication skills alongside proven ability to manage complex tasks.

AN OVERVIEW

- **Technically sophisticated professional** with around **8+ years of experience** in software development with applications in Java (Spring Framework) and AWS
- Currently associated with **EPAM Systems, Pune** as **Lead Software Engineer**
- Expertise in **Kubernetes** for microservices deployment
- Good understanding of **Object-oriented programming** model and **Design patterns**
- Expertise in REST **Web services** and **Microservices** development with **OpenAPI specification**
- Expertise in application development using **Spring Boot** and **Spring Data**
- Expertise in developing standalone batch jobs using **Spring Batch**
- Experience of product development using **Scaled Agile (Safe)** and **Kanban** methodology with **JIRA** and **Rally**
- Proficient with build tools like **Maven** and **Gradle**, CI tools like **Jenkins**, **Bamboo** and **Azure Pipelines**
- Expertise in version control tools like **Github**, **Bitbucket** and **Azure Repos**
- Working experience of using code quality tools like **SonarQube**
- Expertise in **AWS services** like **EC2, S3, RDS, Dynamo, Lambda, SNS, SQS, SES, EKS, Secret Manager, Beanstalk, CloudWatch, CloudFormation**, etc
- Expertise is microservice observability and alerting tools like **Grafana**, **Jaegar**, **Kiali**, **ArgoCD**, **Sumologic** and **Opsgenie**.
- Certified in **AWS Solution Architect Associate**, **AWS Developer Associate** and **Azure Fundamentals**

SKILL SET

Vertical Industry	Financial Services, Insurance and Education (current)
Primary Programming Languages	Java
Secondary Programming Languages	Python (Basics), NodeJS (Basics)
Frameworks	Spring MVC, Spring Boot, Spring Data, Spring Batch, Spring JMS
Test Frameworks	Junit5, Mockito, Integration, E2E, Contract, Performance
Application/Web Servers	Apache Tomcat, Websphere, Liberty
Database	SQL Server, Azure SQL, PostGres, Oracle, Mongo, Maria, Cosmos, Dynamo
ORM	Spring Data, Hibernate
Operating System	Windows XP/7/8/10, Linux
IDEs	IntelliJ, Spring Tool Suite, SQL Developer, VSCode, Jmeter
AWS	EC2, S3, RDS, Dynamo, Lambda, SNS, SQS, EKS, Secret Manager, Beanstalk, CloudWatch, Route53, ALB, CloudFormation
Other Tools and Technologies	Apigee, Okta, Lens, Docker, Stoplight, PCF, Azure, Postman, Autosys, SoapUI, Fortify Scan, Kibana, Appdynamics, Dynatrace, ServiceNow, Cherwell, WinSCP

ORGANIZATIONAL SCAN

Hitherto: EPAM Systems, Pune as Senior Software Engineer

Jun'2018 - Mar'2020: Principal Financial Group, Pune as Software Analyst

Dec'15 - Jun'2018: Capgemini Technology Services India Limited, Pune as Senior Software Engineer

HONORS AND AWARDS

- **Pat on Back, Technology Master and Delivery Excellence** awards for delivering business critical functions for a newly formed team in EBSCO CMA project
- **Spot Award** for delivering immense business value for RMA and Config domain in EBSCO project
- **Best Innovative Project** award for developing a chatbot for the organization helping our field agents and underwriters in finding occupation classes during underwriting process, saving their time and dollars
- Won **First Place** in hackathon for proposing and developing a Digital check processing system using cognitive services like Computer Vision
- Oracle certified in Java, Cloud certified in AWS Solution Architect Associate, AWS Developer Associate and Azure Fundamentals

PROJECT OVERVIEW

Title #1: Config Translation Service (EPAM Systems)

Technologies: Spring Boot, Gradle, OpenAPI Specification, Github, Jenkins, Swagger, Lokalise, EKS, Docker, DynamoDB, SQS, CloudFormation, Parameter Store, Grafana, Sumologic, Opsgenie

Role: Lead Developer

The Config Admin system needed support of internationalization for our international customers. The service was aimed to provide support to 31 different languages with the help of a 3rd party vendor tool named Lokalise. The service was designed and developed to trigger at cron schedule and start processing messages listening to some events/messages from SQS. DynamoDB was used to keep track of all the data that was published to Lokalise. The service also used Redis since our services had multiple instances in different K8s Pods.

Role: Developer

Responsibilities:

- Understanding business need. PIP Plannings and solution design
- Application development following OpenAPI specification with unit, integration, E2E and contract tests
- Looking after various observability tools and matrices
- Feature acceptance demos, deployment and support
- Providing business support to different translators and Lokalise team

Title #2: Experience Manager (EPAM Systems)

Technologies: Spring Boot, Gradle, OpenAPI Specification, Github, Jenkins, Swagger, EKS, S3, DynamoDB, SES, CloudFormation, Jmeter, Grafana

The application was developed to provide backend support for the new Admin System to support media and journals for many customers. Designed as a lightweight and distributed portal which provides access to administration modules based on identity and role information. It uses microservices architecture to expose different modules to the customers using "Configuration-as-a-Service" API.

Role: Key Developer

Responsibilities:

- Understanding business need. PIP plannings and solution design
- Application development with unit, integration, E2E, contract and performance tests
- Looking after various observability tools and matrices
- Feature acceptance demos and deployments
- Bug fixes and enhancements. Providing on-call support on rotational basis

Title #3: Financial Data Exchange (Principal Financial Group)

Technologies: Spring Boot, Maven, Azure DevOps, Azure App Services, Github, Azure Key Vault, APIM, Apigee, z/OS connect

Durable Data API enabled Data Aggregators like Yodlee and Mint to collect customer's financial information from financial platform providers. The service was intended to fetch financial information from our mainframe and cloud admin systems and provide cater to EDA team. It aimed to replace the existing screen scrapping and with an API based solution using OAuth security model.

Role: Developer

Responsibilities:

- Requirement gathering and estimation
- Analysis and solution design
- Application development from scratch and unit testing using Mockito
- ARA and AVA for the application
- Application hosting in Azure App Service and exposed via APIM. Implementation of security features like spike arrest, quota violation, AD authentication, IP whitelisting and auto scaler

Title #4: Azure DevOps Pipeline Setup (Principal Financial Group)

Technologies: Azure Virtual Machines, Azure DevOps (Build Pipeline, Releases, Artifacts), Github, PowerShell, Unix

With an emerging demand of cloud native applications in the industry, wave of migrating to cloud soon became a primary centre of focus for IDI team. This need resulted in setup of a CICD pipeline process in Azure DevOps so that different teams could leverage the CICD feature in cloud. This enabled teams to deploy applications to Azure (PaaS and IaaS) and move out of the existing onprem architecture. The project majorly included various POCs to check the feasibility of the solution.

Role: DevOps Engineer

Responsibilities:

- Analysis of the existing on premises CICD architecture
- Setting SSO enabled private organization, teams, roles and projects in Github
- Configuring nexus mirror for uploading required spring dependencies/ python packages/ node modules to Azure Artifact
- Feasibility check of hosting a web application in Azure App Service (PaaS)
- Setting build pipeline to build the artifact in Azure Artifacts
- Setting release pipeline to push the artifact from Artifacts to Azure App Service

Title #5: Policy Rider Service (Principal Financial Group)

Technologies: Spring Boot, Maven, Liberty server, AEM (Form Design), ODM (Rule Designer), Apigee, Bitbucket, Bamboo Spring Boot micro-service for handling all policy related letters. The service was responsible to sending FBI rider letters to customers. The service was responsible for receiving an XML payload from admin system, processing it, creating a PDF letter, indexing it in content manager and sending it over to EDF and PTM teams.

Role: Developer

Responsibilities:

- Analysis and estimation
- Application development from scratch and unit testing using Mockito
- ARA and AVA for the application
- Deployment to Liberty server and web hosting interface implementation using Apigee including XML threat protection, spike arrest, quota violation, IP whitelisting and load balancer configuration

Title #6: EFT Payment and ACH Refund Service (Principal Financial Group)

Technologies: Spring Boot, Maven, MongoDB, SQL Server, DB2, Liberty server, Apigee, Bitbucket, Bamboo
Spring Boot REST service for managing all policy premium payments for all the policies in admin system. The service was tailored for handling EFT payments, check payments and ACH refund payments. The service was responsible for receiving policy and payment details from Azure API management services, stored the transient payment data in Mongo database, creating an XML, updating functional and control layer databases and transferring XML to treasury team (TAS) team, who was responsible for interacting with Well Fargo payment gateway for executing the transactions.

Role: Developer

Responsibilities:

- Analysis and estimation
- Application development and unit testing using Mockito and integration testing using Spring Boot Mock
- ARAR and AVA for the application
- Deployment to Liberty server and web hosting interface setup for interacting with external system using Apigee with security features like XML threat protection, spike arrest, quota violation, IP whitelisting and load balancer configuration

Title #7: IDI DUG Chatbot (Principal Financial Group)

Technologies: NodeJS, Azure Bot Framework, LUIS for Natural Language Processing, Azure Table storage, Azure Application Insight, JavaScript and HTML for UX

The Chatbot was developed as an innovational project to ease out the process of finding occupation classes of a customer whenever a new policy was to be issued or had to be re-written. The initiative resulted in saving a lot of time and megabucks. Advisors and underwriters could now use an interactive Chatbot in place of traditional and thick book of business. It was designed with Natural Language Processing to determine the intent of a user and then help them to find the correct occupation class without even looking at the book of business.

Role: Developer

Responsibilities:

- Analysis of problem statement and estimation
- Designing, coding and training of Natural Language Processing bot LUIS for determine human intents
- Hosting interface implementation on Chrome, SharePoint, Skype and Microsoft teams
- Securing the chatbot using Azure Active Directory
- Implementing fault tolerance and active monitoring of requests using Azure Application Insights

CERTIFICATIONS

- 2022 - Amazon Web Services: AWS Certified Solutions Architect - Associate
- 2021 - Amazon Web Services: AWS Certified Developer - Associate
- 2021 - Microsoft: Microsoft Certified - Azure Fundamentals
- 2014 - Oracle: Sun Certified in J2EE

ACADEMIC CREDENTIALS

- 2015 - Bachelor of Technology: Computer Science Engineering, Uttar Pradesh Technical University. Secured 80%.
- 2011 - Intermediate: Computer Science, Kendriya Vidyalaya, CBSE Board. Secured 84%.
- 2009 - High School: Kendriya Vidyalaya, CBSE Board. Secured 87%.

PERSONAL DOSSIER

Date of Birth:	27 th January 1993
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