Amrita Singh

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Profile Summary

- Strong experience in full-stack development, with a focus on designing scalable microservices using Spring Boot and deploying on cloud platforms (AWS, GCP, PCF).

- Successfully led the migration of monolithic applications to microservices, improving efficiencyby 30%.

- Very good Analytical and problem-solving Abilities.

- Worked on IAM Tools like Forgerock and also implemented access-service for oAuth Implementation.

- Thorough knowledge in application development using Spring Boot, Hibernate, JDBC.

- Have been part of research projects wherever automation or real time problems needs attention to provide technical solutions.

- Experience with deployment on cloud using Docker on Kubernetes , AWS and GCP.

- Worked on AI ad ML Development and devops solutions by implementing Full Stack implementation on AWS.

- Experience with Forge Rock Product components, enterprise based as well as cloud based. -

- Experience working monitoring tools like opentelemetry, Kibana, Grafana, Relic, Splunk etc.

- Experience with Data Streaming with Kafka based System Architecture.

- Experience with Data Analysis and Data Lake Formation and Analysis Architecture.

- Collaboration and Coordination among Teams to understand the structure and standardize the system.

- Experience in developing Single Page Application (SPA) using Angular, Node JS. And with the creation of RESTful Web service.

Professional Summary

Organization	Tenure	Last Designation
DBS Singapore (On the Payroll of Unison)	Jun, 2022 to Feb,2024	Senior Java Developer
Infosys (Payroll Smart Folks Info Solutions Ltd.)	Nov, 2021 – March,2022	Lead Consultant
Mavenir Systems (Payroll Scoop Technologies)	Dec 2020 – Nov,2021	Principal Software Engineer
ANZ (payroll Nityo Infotech)	Sep, 2019 – Jan-2020	Lead Engineer
VISA	June 2018 – April 2019	Staff Software Engineer
JP Morgan Chase	Oct 2011 – April 2018	Application Developer
Polaris Software Labs	Jan, 2011 to Sep, 2011	Project Lead
Headstrong India	Dec, 2008 to Jan, 2011	Sr. Software Developer

HCL Technologies	Nov,2007 to Nov 2008	Software Developer
Infosys	Mar, 2006 to Oct 2007	Software Developer

Certifications

- AWS Certified Solutions Architect – Associate
- Databricks Certified Data Engineer Associate
- Snowflake Hands on 5 Badges.

Professional Development

April'24 - June'2024 as AI Intern with Cell Strat AI Lab

Project: (Imagine View - KB Miner and Cell Bot)

Key Result Areas:
- Implemented solution to upload PDF's and CSV's and using RAG (using Lang chain, OpenAI,) and deployed on AWS services like lambdas, lambda layers, for vectorization used up stash and able to chat interactively with files even with the larger file until 50 mb.
- Worked on OCR Feature, analyzed all possible frameworks available and got to work on solution which can work with handwritten images well enough.
- Identified text2sql feature which can be converted as a framework to be architected so that no matter what is the data source, user's queries will be converted to SQL's fetch data and chat history will be stored and users can filter the data, this will be a whole set up on AWS and OpenAI.
- Worked with chalice API and cdk deployment on AWS for all features.

Work Experience

June'22- Feb,2024 with DBS as Senior Java Developer (payroll of Unison Consulting Pvt Ltd.)

Project: (DDOM and ICOMM)

DDOM was a platform where a new mini system has been setup by Control Tower to Bring all the Transactional Data into Lake and then Lake has been set up at multiple tiers so that User can see the Data on QlikView Dashboard and Analyse and Predict the Data Intelligently and automatically.

ICOMM is a Communication Platform which is evolving as a single one stop solution of communication multiple source systems to Customers. Multiple Channels Email, SMS, PUSH Notifications, Inbox etc. as per the customer preference will be sending the Marketing or Official messages from the Source Systems to Customers. This is API mesh platform transactions are Kafka based and event driven.

Key Result Areas:

- Developed new features in product like WhatsApp and LINE by creating POC's and approved by users.
- Worked on Kafka with T1 ingestion framework and Kafka set up with multiple APIs for Data Transfer.
- Worked on setting up Pipeline using DRONE to automate the CI/CD process for deployments to UAT and PROD.
- Worked on setting up connectivity with GCP Servers and Firebase features for Indonesia clients for their specific features.
- Worked on Deployment on GCP and being part of integration across the system on GCP.
- Have been part of designing and rectifying the existing issue extensively on migrating features onto AWS for Email Feature.
- Worked on migrating deployments for AWS features using Evolve Pipeline to deploy on organisational AWS code

pipelines.

- Worked on setting up Kafka Producer and Consumer Clients and developed feature to ingest data to Lake end to end.
- Worked on many POC's to set up design on how to migrate email and push notifications on AWS using SNS SQS and SES.
- Worked on setting up Kibana and Grafana pipelines and enhanced Dashboard's as per the Logging standards. Implemented the Current Architecture, Multiple tiers how data ingests and how lake formation happens. Optimized Data Engineering Platform and Analyze the Transaction Data on Analytical Platform.
- Supported iCOMM and Analytics Team both with Data reconciliation and some real-world problems faced by the users.
- Worked on Pivotal Cloud Foundary(PCF), JUnit Test Cases , Spring batch, Jenkins, Maven , Go Language, Sonar Qube, Nexus, Oauth as a part of project worked on all mentioned techstack .

Nov'21- March,22 with Infosys as Lead Consultant (payroll of Smart Folks Info Solutions)

Project: (ANZ_IAM ForgeRock Support and Research.)

This is a research project where we need to implement open telemetry logs of forge rock components for Transactional logs to be able to capture on or by any Monitoring tool like Splunk, Relic, Dynatrace etc. Open Telemetry is an open source free and was immature product, we analysed it and researched on this how to make the cost effective and integrated tool in ANZ env.

Key Result Areas:

- Worked on Forge Rock Components FRAM, FRIM, IG, DS, and explore how transactional data has been injected and study the logging mechanism.
- Made pocs' to set up similar framework and then understand how to achieve best possible feasible lotion to implement using open telemetry.
- Worked on many poc's to set up open telemetry to be used by each component of ForgeRock in System environment.
- Worked on tools Splunk, New-Relic, open telemetry to set up the connecting using agents as to collect the logs to the dashboards.
- Worked on each component as poc and on system environment for ForgeRock Product to capture the Transaction Id's since from inception to the dashboard.
- Worked on Accounts Module as an Microservice architecture. Microservice is integrated with NGIN product which is configurable to address global and regional needs of insurance carriers, has plug-and-play components built on open-source technologies.
- Worked on developing, testing and support requirements / issues raised by the users as to deliver the product to meet the deadlines.

Project: (Bajaj Allianz Life Insurance Accounting Solutions)

NGIN, the platform, which is configurable to address global and regional needs of insurance carriers, has plug-and-play components built on open-source technologies. These components enhance time-to-market and promotes a superior digital experience, while driving substantial operational efficiencies. Bajaj Allianz Life Insurance partnering with Infosys McCamish for this platform as the company looks to drive faster digital transformation and improve overall efficiency.

Environment:
Back End: Java, Spring-boot, Micro Services
Front End: Angular
Database: Postgres
Deployment: Docker/K8 deployment of application.
Cloud Based: AWS, Redis, Kafka
Data Monitoring: open tracing, Kibana

Key Result Areas:
- Collaborated and Co-ordinated with Functional teams and Technical Teams and Deployment Teams to understand the issues and working out towards setting up a solution design to set up and standardize the system.
- Worked towards the Tasks Designing, Issue fixing and developing optimum solutions with Team for Microservices

Architecture establishment.

- Develop features in Code and Check-ins to Git hub and maintaining in CICD pipelines in Dev and QA environments.
- Worked on Automating the tasks by creating CI/CD Pipelines so make development quick and easy for testing in different environment.
- Worked towards Logging mechanism research and evaluate open telemetry.

Dec'20- Nov'21 with Mavenir Systems (payroll Scoop Technologies) as Principal Software Engineer.

Project: (Profile Composer\Rule Composer)
Mavenir Policy Composer is based on the objective that any user should be able to create use cases and plans; and validate and apply policies on PCRF as per the operator's marketing plan. Policy Composer is a simple user interface used to create a new use case from the scratch using the GUI and creates policies that are building blocks to use cases and plans.

Environment:
Back End: Java, Spring-boot, Microservices.
Front End: Angular JS
Database: Couch Base
Deployment: Docker/K8 deployment of application.

Key Result Areas:
- Worked towards the Project Migration from Monolithic to Micro-Services Architecture establishment.
- Develop features in Code and Check-ins to Git hub and maintaining in CICD pipelines in Dev and QA environments.
- Taken care of deployments in Docker and Kubernetes Environment and also debugging and support the Monolithic older version of application.
- Worked on designing Open APIs based on requirements gathered from Users and Across the different Business partner Teams.
- Worked on Automating the tasks by creating CI/CD Pipelines so make development quick and easy for testing in different environment.

Sep'19- Jan'20 with ANZ (payroll Nityo Infotech) as Lead Engineer

Project: (Customer Single View)
The Idea behind this product is to connect the data coming from different business Teams via Open API's and create a new UI to analyse and show the required data as per the entitlement. This will help the Teams to validate the Data binded and travelled across different applications in all possible environments.

Environment:
Server Side: Java, Spring-boot, Microservices.
Client Side: ReactJS , TypeScript
Database: MySQL

Key Result Areas:
- Worked as Team also Contributor as Full Stack Developer.
- Primarily Gathered requirements and Analyse them Closely with Users.
- Develop features in Code and Check-ins to Git hub and maintaining in CICD pipelines in all environments.
- Docker's Set up for Deployments.
- Worked on designing Open APIs based on requirements gathered from Users and Across the different Business partner Teams.

Jun'18-Apr'19 with VISA as Staff Software Engineer

Project: SSOT (Single Source of Truth at VISA)
An SSOT platform at Visa, allowed business analysts and data scientists to impact key business and product performance indicators using certified and standardized metrics and attributes from consistent and reliable sources.

Environment:

Server Side: Java, Spring, Hibernate, Micro-strategy
Client Side: Angular JS, Node JS, Type Script , RxJS
Database: MySQL
Automation: Python, Robot Automation Framework

Key Result Areas:

- Worked towards analysing and debugging the existing issues with the application.
- Worked on the migrating the UI side of the application from Angular 1+ to Angular 6 so give users a fast and tunned application look and feel and high-performance application.
- Develop features in Code and Check-ins to Git hub and maintaining in CICD pipelines in all environments.
- Handled Automation of testing portal in environment using Robot Automation Framework.

Oct'11-Apr'18 with JP Morgan, Chase as Software Developer Project

 Project: BANCS
Period: Jan'17-Apr'18
Description: BaNCS is a banking software suite developed by Tata Consultancy Services for use by retail banks.

Key Result Areas:

- Took part in brainstorming sessions, planning, estimation and retrospective meetings.
- Part of Team to Implement Dev ops Life cycle, Support for UAT environments.
- Automation using Jenkins to save time and cost for Manual interventions.
- Used Monitoring Tools Kabana and Geneos to monitor all environments for the application.
- Part of UI Development team to develop a JIL interface using React JS.
- Troubleshooting and resolving access management and provisioning workflow errors.
- Perform Identity and access management activities.
- Updating existing access management and provisioning workflows.
- Execute and track security process related activities including User ID management.
- Manage operations within the IAM environment at the client, including application patching and upgrades and certificate management.
- Establishes and maintains good working relationships with all IAM customers.
- Web Access Management (Quest Active Roles Server, SiteMinder, Oracle Access Manager, etc.)

Project: Class Actions Servicing (CAS)
Period: Aug'15-Dec'16
Description: The Class Action application is browser based, client facing tool that allows JPM internal operations group to manage client Class Action processing notifications and CA action requests, and provides report capabilities to internal and external clients within the View Portfolio Reporting via a separate repository containing 10 years of data. Class Actions application uses VPR database to run reports in a separate environment.

 Environment:
    Server Side: Java, Spring Framework
    Client Side: Lazlo (older Flex Version)
    Database: ORACLE 10 g

Key Result Areas:

- Took part in sprint planning, estimation and retrospective meetings
- Acted as Individual Contributor to work on UI and business and data access layers
- Developed UI and backend using Lazlo and Java Spring MVC
- Liaised with Testing Team for testing activities and assisted in requirement gathering

Project: SLA Dashboard
Period: Jan'15-Aug'15
Description: To track data availability for use in reporting and track report distribution

Environment:
      Server Side: Java, Spring Framework
      Client Side: HTML5, Angular JS, Bootstrap JS
      Database: ORACLE 10 g

Project: WSS Portal
Period: Oct'11-Jan'14
Description: WSS client access iPad and Portal application is used by pension fund investors to get information about their Custody, Performance of the Composites and Accounts, Compliance, Securities lending and Reports

Environment:
      Server Side: Java, Spring Framework
      Client Side: HTML5, Angular JS, Bootstrap JS
      Database: ORACLE 10 g

Jan'11-Oct'11 with Polaris Software Labs: Migration Project as Project Lead

Project Name: RAPID
Description: RAPID (Risk Administration Portfolio Information Database) is a system in which critical data on Credit Customers, Credit Approvals, Facilities and Allocations is stored. Its primary function is the maintenance of Facility data, which is sent to Credit Engine for all approved Facilities.

Environment:
      Server Side: Java, Spring Framework
      Client Side: Flex, Actionscript
      Database: Sybase
      Application Server: Weblogic 10.x

Personal Details

Date of Birth: 06/Sep/1982
Languages Known: Hindi, English
Education\Qualification:B . Tech
College: U.P Technical University
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