ROSHAN PATHAK

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SENIOR SOFTWARE ENGINEER - FULL STACK

SUMMARY

- With close to **6 years of experience in Full stack development**, I had a chance to explore diverse technologies, complex project requirements, problem statements and have been able to develop robust & scalable web-based applications by providing proper solutions, timelines to ensure faster time to market delivery of product by following best market practices.
- I have the privilege of **working collaboratively with product managers, architects, UI/UX lead** in order to come up with a product that is easy to use and appealing to the customer.
- I bring in experience of handling sensitive data by working for **Financial Services and Travel Services giants namely AIB, DBS and Expedia.**
- Expertise in **microservice development and end-end product delivery & full lifecycle development of an application by following healthy agile practices** and serving as a bridge between technical and business users.
- I am very **proactive in taking up tasks and addressing constructive feedback** and following them to ensure early delivery of products to production.

KEY SKILLS

- **Personality Skills:** Quick learner, Problem solver, Intuitive, Passionate, Collaborator, Accountable, Team management, Detail oriented, Enthusiastic, Innovative, Process oriented, Value driven, Mentoring, Proactive, Good communication skills.

- **Technical Skills: Languages:** Java, Kotlin, Python, Javascript | **Frameworks:** Spring, Spring boot, Dropwizard, React, Spring reactor, Junit, Mockito, Redux, gRPC | **Deployment:** Jenkins, Docker, Kubernetes, Spawg, Spinnaker | **Tools:** ElasticSearch, Grafana, Datadog, Splunk | **Code quality metrics:** Jacoco, Sonarqube, Fortify | **OS:** Linux, Windows, Macintosh

PROFESSIONAL EXPERIENCE

Full Stack developer || Senior Software Engineer|| Team Lead	Jun '23 - Present
Coforge Ltd.	Kolkata, West Bengal

Client: Expedia Group.
Product: Unified Regulatory Platform
Technology Stack: Java11, Data structures, Maven, Dropwizard, Kotlin, Junit5, Microservices architecture, Cassandra, Redis, gRPC, Git, Jira, Jfrog, Aurora, AWS, SQS, Kafka, Jenkins, Splunk, Spawg, Spinnaker, Datadog, Backstage.

- Championed **Coforge pod for regulatory domain** involved in technical discussion, design discussion and future roadmap.
- Conducting unit testing surge in order to maintain code quality in existent legacy microservice systems, **improved the metrics from an average of 15% to an average of 95%.**
- Ensuring healthy & mature Agile practices to ensure timely delivery and resolution of incidents and **ensuring sprint velocity > 95%** as part of our constant effort of achieving engineering excellence.
- Spearheaded development of Jurisdiction Discovery Service (JDS) & Regulatory Validation Service (RVS)- which **included creation of LLD, test driven development, functional testing, coding**. It is live in production **with 0 bug count.**
- Implemented asynchronous communication across the domain layers using **Kafka** and internally within the domain using messaging service - **SQS**.
- Orchestrated design documents (HLD) and conducted rounds with UI, business teams to understand requirement for the new Unified Regulatory Platform (URP).
- Constituted splunk dashboards for effective monitoring & handling of on-call issues which takes care of **80% of on-call issues and resolving P1, P2, P3 issues within the provided SLAs in production environment.**
- Greatly contributed in stabilising the system **where weekly error counts spiked to 14k+ are now reduced to 40+.**
- Creation of Max and Min Night Cap functionality which validates the compliance of the property against each booking made also determines upfront which are the compliant properties for the user to book **which reduces compliance failures at later stage by 100%.**
- **Creation of Karate framework for functional, load and stress testing and** integrating them as part of build pipeline for effective evaluation and pre determination of application performance for any functionality release or update.
- **Creating protos for regulatory content to be consumed and published to UI as part of the gRPC framework of text supply.** This enabled end user to update the respective regulatory paragraphs via a simple function call.
- Oversaw integration of both Sql & Nosql database with **20% legacy systems on Aurora and 80% newer platform on Cassandra.**

Specialist Full Stack developer || Associate || Team Lead	Nov '21 - Jun '23
DBS Bank	Hyderabad, Telangana

Domain: Financial Services
Product: Online Equity Trading Platform, Online Crypto Trading Platform

Technology Stack: Java11, Data structures, Maven, Spring reactive(functional programming, multithreading), MariaDb, Jenkins, Microservices, Junit5, Webclient, Kafka, Sonarqube, Fortify, Nexus, JFrog, React, SpringBoot, Reactive websocket, Redis, Docker, Kubernetes, Git, AWS, Kibana/ElasticSearch, Grafana, Jira.

- Designed a platform based on microservice architecture design **with 100% reactive programming concepts to ensure low-latency, concurrency, high availability for equity trading.**
- Implemented Design Patterns like **Observer Design Pattern, Adapter Design Pattern, Facade Design Pattern and Proxy Design Pattern** to build scalable systems.
- Led the implementation of the domain-driven design and **achieving 99 percentile response < 150ms.**
- SPOC for the market sub-module - enabling streaming of market price by integrating with Refinitive systems via **reactive websocket communication with 99% availability.**
- **SPOC for the holdings sub-module** - enabling user to view their settled holdings or positional trade by integrating to Avaloq & Finacle systems **with 100% consistency.**
- Implementing holdings & market sub module micro-frontends based on React framework with key deliverables on **Vista-shared components including custom components(Carousel Cards, Tables, Lazy loading).**
- Spearheaded creation of **context for storing user intrinsic data in react context** and passing it across components as props as and when required by each component.
- Administered **pull requests, code commits and security vulnerabilities** and provided constructive feedbacks.
- Led **Jacoco, Sonarqube and Fortify plugin** integration for providing high-quality code delivery.
- Designed **HLD, LLD and sequence diagrams** as part of technical design document creation.
- Worked in close adherence with UI/UX team to maintain standard design, look and feel to the customer for both the trading platforms.
- Implemented **containerization technologies using Docker and Kubernetes to build a CI/CD pipeline** based on jenkins to deploy the kubelet on cloud platforms such as AWS.
- Streamlined batch investment data asynchronously from avaloq and updating the data in **Redis cache using write through strategy.**
- Orchestrated authentication mechanism to validate the user via IAM client and encrypting the information using JWT token also caching the token **reducing redundant calls by 90%.**
- Developed **in-memory caching** service for service-service authentication thus **reducing actual calls to identity-service by 99%.**
- Designed mechanism to **store user session in redis cache and also handling it's clearing based on TTL(time to live)** or logout events from Kafka queue.
- Created Functional Tests using gatling to **reduce the load testing issue count by 98%** thus **achieved operational excellence** and reducing time to market.
- Creating **integration, performance and pact tests** for ensuring proper code quality before moving the code to higher environments.
- Predominantly worked with distributed relational database namely - **MariaDB** and using distributed caching using **Redis cache.**

Senior System Engineer || Team Lead	Nov '18 - Nov '21
Infosys Limited	Pune, Maharashtra

Client: Allied Irish Bank
Product: Mortgage Assistance System
Technology Stack: Java 8, Data structures, Maven, Spring MVC, Spring Data JPA, Spring Boot, Hibernate ORM, Kafka, Angular, Javascript, Typescript, JQuery, HTML, CSS, Bootstrap, RDBMS, DB2, SQL, Kafka, Rest API, Docker, AJAX, Junit, JReport, Github, AWS, Splunk.

- Developed microservice for creation of encrypted credit report with availability for the customer to download and view the report.
- Created solution for promoting renewable energy - enabling customer to avail discounted home mortgage based on the Green Energy rating provided by the respective agency.
- Leading team and managing the resources across on different modules and achieving a staggering Sprint velocity of 95%.
- Resolved an exhausting issue which was introduced while migrating to Java 8 and fixed the issue by overriding existing interfaces, which was well appreciated across forums.
- Exposed mortgage details asynchronously using Kafka queue to downstream services to enable them for quick decisioning on processing of mortgage during COVID 19 phase.
- Implemented solutioning of moratorium, annuity and interest only features on mortgage taking into account customer feasibility during COVID 19.
- Single handedly delivered average of 150 story points in a single release.
- Majorly worked with relational Databases(RDBMS Technology) - namely DB2.

EDUCATION

B.Tech	Aug '14 - May '18
University Of Engineering & Management	Jaipur, Rajasthan

- Secured: 8.15 SGPA

I.S.C	Apr '12 - May '13

Central Modern School	Baranagar, West Bengal

- Secured: 80.67%

I.C.SE	Apr '10 - May '11

Central Modern School	Baranagar, West Bengal

- Secured: 88.67%

CERTIFICATIONS

- Silver Titan security certification
- Bronze Titan security certification
- HackerRank Rest API - Intermediate
- Infosys Certified Java SE8 Developer
- Infosys Certified Spring5 Professional
- Infosys Certified Global Agile Developer

Accomplishments

- Super Techie awarded - DBS Bank.
- Eveready Employee awarded in two consecutive quarters - DBS Bank.
- DBS Rookie of the Quarter.
- FSDCG Star Performer- Infosys.
- Bronze medalist in graduation.

Extracurricular Activities

- Actively participated and won debate competitions in school and college.
- Member of Toastmaster Club at Infosys, DBS.
- Have won local cricket & kabaddi tournaments.