

Prabhat Kumar Sil

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Summary

- 13.5 years of experience and result oriented software engineer skilled in building successful, scalable and high-quality production software across distributed systems for Internet scale Application. A few highlights include
 - Redesigned and ReArchitected the Macy's Order and Return Platform from legacy system to Google Cloud to make the Order Platform highly available ,scable and increase throughput to increase online sales 34%.
 - Developed a highly distributed and scalable Publisher-Subscriber based messaging system that handles close to 10,000 TPS from 6Million merchant locations across 36 countries used by 100 client systems.
 - Designed and built Realtime Credit Card Fraud Detection System detects fraud within 25 seconds of card swipe.
 - Kubernetes , Cassandra, AWS Certified Engineer.

A voracious appetite for innovation and learning new technology and strong interpersonal and communication skills.

Technical Skills

Programming Languages	Java, Python, SQL
Technology	Kafka,, RESTful Web Services, Spring Boot,Kubernetes, Google Cloud, Spanner DB, GCP PubSub,AWS,NO SQL, Docker, Kubernetes, Splunk, Apache Spark, JBoss Drools, Netty 4, Junit, Mockito, Voltage Encryption, Fortify ,Web Inspect. Maven, GIT, Bit Bucket, Jenkins.
Databases & Tools	Cassandra, Spanner DB,MongoDB Oracle 12g, DB2 7.3.
Other Concepts	Microservices, Cloud Computing, Data Structure & Algorithm, OOAD Design pattern, Pub-Sub Messaging, Map Reduce, Sharding, Stream Processing.

Experience

Employer : Cognizant Technology Solution India

Period : March - 2009 - Aug 2012

Employer : Cognizant Technology Solution US Corp(US Onsite)

Period : Sept 2012 - Jun 2013

Employer : Cognizant Technology Solution India

Period : Jul - 2013 - Jan 2014

Employer : Cognizant Technology Solution US Corp(US Onsite)
Period : Feb - 2014 - July 2014

Employer : Cognizant Technology Solution India
Period : Aug- 2014 - Jun -2017

Employer : Cognizant Technology Solution US Corp(US Onsite)
Period : Jul- 2017 - April 2021

Employer : Macy's System & Technology(USA)
Period : May - 2021 - April 2022

Employer : Nisum Technology
Period : May - 2022 - Till Date

Company : Nisum Technology

Role : Senior Technical Lead :

Apr 2022 - Till Date

Project : Account-XAPI GCP Migration

Roles and Responsibilities

- Worked as lead application developer of migration of Macy's Account , Profile APIS from legacy IBM SoftLayer to Google Cloud.
- Integrated Macy's Account APIs Services with GCP services like PubSubServices, Spanner DB, Google Cloud Storage.
- Implemented Spring Boot 2.5 and Jdk 17 and replaced all legacy libraries with open source framework solutions.
- Deployed Application in Google K8 engine with CI/CD tools like Spinnaker, Jenkins.
- Performed Code review in Gitlab Merge Request to ensure performance, code quality, scalability, best practices with bench mark of 85 % unit test coverage.
- Helped and Guided team members with optimal solutions to architectural problems.
- **Tech Stack:** Microservices Spring Boot 2.5, JDK 17, Consul Integration, Spring Cloud API, Google Cloud, Spanner DB, GCP PubSub, Mockito, Splunk, Kubernetes, Git Lab,

Company : Macy's Systems & Technology

Role : Senior Software Engineer(Backend) :

May 2021 - Apr 2022

Project : Ordermods GCP Migration

Roles and Responsibilities

- Redesigned and ReArchitected the Order and Return Platform from legacy system to Google Cloud to make the Order Platform highly available ,scable and increase throughput to increase online sales 34%.
- Worked as lead application developer of migration of Macy's Post Purchase(Order and Returns) API's from legacy IBM SoftLayer to Google Cloud.

- Integrated Macy's Order and Return Platform / Services with GCP services like PubSubServices, Spanner DB, Google Cloud Storage.
- Implemented Spring Boot 2.5 and Jdk 17 and replaced all legacy libraries with open source framework solutions.
- Deployed Application in Google K8 engine with CI/CD tools like Spinnaker, Jenkins.
- Performed Code review in Gitlab Merge Request to ensure performance, code quality, scalability, best practices with bench mark of 85 % unit test coverage.
- Helped and Guided team members with optimal solutions to architectural problems.
- **Tech Stack:** Microservices Spring Boot 2.5, JDK 17, Spring Cloud API, Google Cloud, Spanner DB,GCP PubSub,Mockito,Splunk,Kubernetes,Git Lab,

Company : Cognizant Technology Solution

Role : Senior FullStack Engineer :

2015 -2021

Project : Enterprise Transaction Information System(ETIMS)

Roles and Responsibilities

- Spearheaded the design and development of a Large Scale Publisher-Subscriber messaging system that processes 10,000 TPS from 6 Million Merchant locations.
- Redesigned the architecture with Kafka to improve high-availability, scalability, replication and throughput by 40%.
- Designed and Built Unified message parser that can handle different formats ISO-8583,COBOL and converts into JSON formats.
- Participated in Requirement Gathering, Coding, System Testing, Performance Testing of the Application.
- Built a CI/CD process across all application components so that each and every deployment is consistent and bug free across all environments.
- Created design documents that included solution approach, architectural diagrams, technology stack, version management, build and deployment strategies, production support strategies of the software product.
- **Tech Stack:** Java, Apache Kafka, Netty,TCP/IP, DB2.Splunk.

Project : Authorization Fraud Detection System (AFDS)

Roles and Responsibilities:

- Developed a Real Time Credit Card Fraud Detection System which detects and prevents Brute Force attacks and is capable of handling 2500 TPS.
- Built a highly available distributed Real-Time Spark-Kafka Streaming Analytics platform which detects fraud within 25 seconds of card swipe and supports 6000 TPS from the company's authorization system.
- Implemented MongoDB based Sharding to improve scalability and throughput by 30%.
- Deployed applications components in Docker and Kubernetes for increased scalability and reduce the chance of failure.
- Worked on Coding, System Design, System Testing, Integration Testing.

- Worked on orchestration of build and deployment automation through DevOps methodology Continuous Integration (CI) and Continuous Deployment (CD) with the help of tools like Jenkins, Maven, Git.
- Worked on detail level project estimation for any new enhancements.
- **Tech Stack:** Kafka, Spark Streaming, MongoDB, Java, Spring Boot, Rest API Docker, Kubernetes, Voltage Encryption, Fortify. Microservices Architecture, Spring Boot, Spring Cloud API, AWS Cloud.

Project : Dynamic Transaction Routing(DTR)

Roles and Responsibilities:

- Built a Least Cost Dynamic Transaction Routing System.
- Designed and developed TCP/IP Netty 4.0 based distributed, high-Performing , fault tolerant transaction receiver that can handle 10,000 TPS .
- Built a complex, resilient Transaction Fee Engine Microservice and its API Components.
- Deployed applications components in Docker and Kubernetes for increased scalability and reduce the chance of failure.
- Performed code review, design review, data analysis.
- Fixed some of the security vulnerabilities of the code detected by Fortify and WebInspect Tool.
- Implemented open source Java based Drools Engine to resolve complex transaction network fee calculation rule structure.
- **TechStack:** Java, Netty, Splunk, OracleDB, ZooKeeper, Microservice, Docker, Kubernetes. Microservices Architecture, Spring Boot, Spring Cloud API, AWS Cloud

Role : Associate in Projects :

2011 - 2015

Project : Debit Fee Engine(DFE)

Roles and Responsibilities:

- Delivered highly extendable Debit Transaction Fee calculation Engine calculates 120 Million of transactions per day.
- Designed and developed Debit Fee GUI applications which allow the network admin to configure the fee price rule for Debit Fee Engine.
- Worked on System Design, Coding, System Testing, Performance testing of the application.
- Participated in business requirements and functional requirements gathering, and developing software prototypes.
- **Tech Stack:** Java, Java Swing, Spring Framework, Oracle, SQL,

Project : Bypass Tools

- Lead the full stack development effort of Merchant Facing Web Applications with RESTful API used by 100+ large scale clients.
- Resolved post production issues reported by business users and found the best resolution within the Service Level Agreement (SLA) guideline.
- Performed Coding, Unit Testing , System Testing and Performance Testing.
- Fixed some of the security vulnerabilities of the code.

- **Tech Stack:** Struts2, Spring Framework, Java, JQuery,Jasper Report,Oracle,SQL.

Role : Programmer Analyst Trainee :

2009 - 2011

Project : PRM 8.0 Development

- Worked on Coding, Unit Testing PRM modules like Tips, Auto Text, Letter Config and Letter Generator module.
- Made critical design modifications of the Enhance Pagination and Grid Filtering components.
- Created Unit Test Cases, System Test Cases, Integration Test Cases of the application.
- Fixed existing bugs and customer escalations mean while learning the architecture and protocol of the products.
- Responsible for updating design documents, code base, review documents, baseline documents and other project related documents in the version control system.
- **Tech Stack :** Java,Java Swing, Servlet, PL/SQL

Education

Degree	College/University	Year
BACHELOR DEGREE (B.TECH in Computer Science Engineering)	ST. Thomas College of Engineering and Technology, India	2008

Certifications:

Name of Institution	Certificate Name	Year
Linux Foundation	Certified Kubernetes Application Developer	2021
DataStax	Apache Cassandra 3.x Developer Associate Certification	2020
Amazon Web Service	AWS Certified Solution Architect - Associate	2019
Sun Microsystems	Sun Certified Web Content Developer	2012