PIJUSH **DEBNATH**, Java | CKAD | AWS SAA | Kafka CCDAK | Microservice
1105 Ash St, Celina, TX 75009 | M: (561) 808-5141
Pijush.Debnath@Live.com | www.linkedin.com/in/pijushdebnath/

WORK EXPERIENCE

JP Morgan Chase & Co. | Plano Tx, USA | 03/2023 – continue
Lead Software Engineer

Shop, Finance & Drive (Chase Auto technology)- Integral part of Chase initiative to introduce a one stop platform to explore vehicles, engage with dealers, and apply for financing in a more personalized way. Designed application at scale to process millions of users click stream events and generalized personalized view. Reduce EKS cluster utilization by 50% by implementing batch processing of Kafka message and tuning resources.

Designed and developed distributed applications to capture customer click event, engagement event and interaction with auto dealers. Process events at massive scale using Kafka, Aws EKS, ECS, Lambda, API Gateway, Dynamodb, SNS, SQS, Event Bridge. Generate personalized views based on user activities.

Laboratory Corporation of America | Burlington NC, USA | 06/2015 – 03/2023
Lead Software Engineer

Worked integrally with the initial team using groundbreaking technology for the Next Generation Revenue Cycle Management project 'Phoenix' at LabCorp. Closely worked with LabCorp Senior Management to help build a system that will optimize the end–to-end transformation of "Customer–to-Cash" revenue cycle and instantiate the improved processes into a modern technology platform.

- Led a team of 7 software engineers building LabCorp's core engineering team. Architected shift to microservices, reducing downtime by 90%
- Accelerated product delivery by 50%.
- Experienced with latest technology and exposed to SOA based architecture. Major focus on stand-alone and loosely coupled service to provide seamless support to existing endpoint system.
- Core of member talent hiring, resource planning, roadmap planning and feasibility analysis.

Next Generation Revenue Cycle Management 'Phoenix' (2015-2017) - LabCorp next generation billing system and revenue cycle management product. Improve LabCorp cash flow by reducing DSO and bad debt expenses. Re-engineering LabCorp business processes to improve efficiency and reduce cost. Facilitate a patient centric approach to revenue cycle management and modernize LabCorp IT processes and introduction of cutting-edge technology.

Release 1- Cleaning and accurate data by integrating with insurance api using healthcare standard protocol.
Release 2- Patient responsibility estimation and payment optimization
Release 3- Modernize and Streamline the claim submission process. Physician outreach for denials claims.

Integrated Genetics Prenatal Estimate (2017-2018) **– An** application to determine genetic related test out of pocket cost. Consume all the Phoenix services developed in Release 1 and Release 2 cycle. Used technology: Spring boot 1.4.4, Hibernate, Jackson, Oracle
   http://www.integratedgenetics.com/patients/cost-estimator

Microservice/ Containerization (2018-2020) **–** Lead phoenix microservice conversion project to convert existing phoenix application to spring boot application. Analysis & design service breakdown based on project coherence, dependency pattern, monitoring. Installed LabCorp first ever application to Docker EE with Kubernetes in place. Used- Spring boot, Sleuth, Resilience4j, UCD, Bamboo, Docker EE, Kubernetes, Helm charts.

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Live Insurance Mapping (2021-2021)- migration of a legacy system where all order from acquisition labs need to assign a valid a labcorp code for further claim and billing process. Lead, architect and develop a highly scalable solution using Java, spring boot, OpenShift.

At-Home Kit (2021-2023)- A labcorp initiative to provide home service for covid, flu and other testing. Lead and architect project from getting physician request to deliver kit to patient. Implemented event driven solution in AWS using SQS, SNS, Lambda, Api gateway. Integrated with several fulfillments third-party, fedex api for real-time tracking.

Verizon | Cedar Rapids, IA, USA | 02/2014 – 05/2015
Software and System Engineer (Contractor)

Verizon Audio Conference Reservation- Core Java, Core Spring, JMS, Multithreaded console application. Socket communication with the remote DAP server for provisioning conference request. Resource/ communication channel allocation for larger voice calls. Ensuring non-interrupt and smooth audio calling. Oracle is used database for storing conference call request. Developed Spring RMI interface for Dashboard communication about the conference call investigation, re-dapping, and modify call number, time and resource allocation. Core Java, Socket, Multi-threading, Spring MVC REST, Jax-WS, JMS, Hibernate, PL/SQL, Oracle, JasperReport, SOA infrastructure.

Banglalink Digital Communications Ltd | Dhaka, Bangladesh | 07/2009 – 05/2013
Product Development Engineer

Banglalink value added services -Skillfully performed design, development, and maintenance of business-critical applications, systems, and product innovations. Interfaced extensively with managers and commercial teams, gathering and translating requirements into functional specifications. Utilized several PL/SQL codes for application development and maintenance at database server level. Gained superior experience in integrating third-party solutions such as TEMS™ Monitor Master- Ascom, Intel Dialogic SS7 & SIGTRAN API, Nokia-Siemens API, and Ericsson API.

Designed Middleware application for **Utility Bill Payment**, enabling automated receipt, verification, processing, and confirmation via SMS text of bill payment requests. Follow all steps of SDLC. Technologies included Java SOAP Web Service, Hibernate, Linux Shell Scripting, Oracle Database, Linux OS, Hadoop, MapReduce.

Intelligence telecom prepaid recharge **CDR Processor & Bonus Payment Gateway**. A Java Multithread application for parsing telecom call logs data, implementing business intelligence, implementing dynamic rules based on business criteria, implementing SAC and notice. Core Java, Core Spring, AOP, Rules engine, Hibernate, Hadoop, and MapReduce.

CORE COMPETENCIES

Language and frameworks: Core Java, Java EE, Spring, Spring Boot, Hibernate, Jax-RS, Jax-WS, Servlet, JPA, JDBC, Python.
Logging and Ser-DeSer: Log4j, JSON, XML, Gson, Jackson, MOXy , Avro
Database: DB2, Oracle, MySQL, PostgreSQL
Containerization and Orchestration: Docker EE, EKS, Kubernetes, OpenShift, Helm chart
CI/CD and DevOps: Jenkins, Maven, Kubernets OpenShift, Spinnakar, Git, Jira
Data Manipulation and Processing: Apache POI, Splunk, Kafka Producer, Kafka Consumer, Schema Registry, Kafka Connector, WebSphere MQ, AWS OpenSearch, Kibana
Cloud, Compute and Infra.: Docker, Lambda, S3, SQS, DynamoDB, Kinesis, SNS CloudWatch,
Monitoring and Performance: Dynatrace, Gremlin, Datadog
Testing and frameworks: JMeter, SOAP UI, Postman, Junit5, Pact, Mockito, Cucumber

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CERTIFICATIONS

CKAD – Certified Kubernetes Application Developer
AWS SAA – AWS Certified Solution Architect- Associate
CCDAK – Confluent Certified Developer for Apache Kafka

EDUCATION

Maharishi University of Management | FailrField, IA, USA | 06/2013-06/2016
Master in Science in Computer Science

Chittagong University of Engineering and Technology| Chittagong, Bangladesh| 2005-2009
Bachelor of Science in Computer Science and Engineering