

Kishan Kavathiya

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About Me

A driven problem solver with a strong desire to grow, a keen interest in handling complex difficulties, and a solid understanding of the fundamentals and practical expertise of technologies used to build applications.

Education

Dhirubhai Ambani Institute of Information and Communication Technology Gujarat
B.Tech - (Honours) in ICT with minor in Computational Science; CGPA: 8.53 *Aug. 2017 – May. 2021*

Experience

ZETA (DirectI) *Mumbai, India*
Software Development Engineer II *July 2024 – Present*

- **Clearance@scale** : Contributed to the development of a large-scale transaction processing system for VISA clearing files, focusing on implementing the matching reconciliation logic. Utilized Camunda, Flink, AWS Athena, and Trino query engine in a high-performance streaming pipeline, achieving 10M transactions per hour while ensuring data accuracy and consistency.

Deutsche Bank *Pune, India*
Associate Software Engineer *July 2021 – July 2024*

- **TradePay** : Implemented certain essential business functions in the Tradepay application, which allows Indian consumers to conduct global business while adhering to all legal standards, such as 2-factor payment authorization, client entitlement and authorization, and delivering eod reports to the RBI.
- **TFL5** : TFL5 is strategic solution for trade finance domain to provide front to back facility through single UI platform. Various features has been implemented like Worknotes where authorized user can add notes or comments on already existing transaction/deal and realtime update will provide to other users. Used the internal Deutsche Bank designed framework like AXIOM, VAS, RDBMS to provide event sourcing solution.
- **Advice** : Designed and implemented microservice for advice and report generation in the TFL. Users may now generate customized pdfs from the UI, replacing the existing 200+ static templates.
- **TFMAS** : Implemented a system to meet security requirements during communication between Singapore's regulatory, MAS, and TF registry, with the goal of preventing double financing. The solution is built on the APIGEE-X platform, which includes Corporate Seal, JWS, JWT validation, mTLS security, and API administration capabilities.
- Integrated bank-wide strategic authentication solution CIDP, which is based on OAuth2.0 and OpenIDC; for microservices integration, an API gateway was implemented; for monolithic applications, Apache OpenIDC was included.

Projects

Paralleization - Calculation of Plasma Density

- The implementation of a parallel mesh refinement based approach with selective refined grids in the desired region with steep gradients in plasma density and electric(E) field led to a 23 faster speed (with 32 processors). Implemented techniques for cache, memory and CPU optimization using C++, OpenMP programming

Blockchain - Trade Finance

- Built a working prototype using blockchain technology to mitigate the issues with double financing that exist in the trade finance lending industry.

Programming Skills

Languages: Java, C++, SQL, Solidity, Python, Javascript, Shell, IaC(Terraform)

Framework & Tools: SpringBoot, Quarkus, REST/GraphQL, Junit, typescript, Node.js, React, GCP, kubernetes(ASM), liquibase, Oracle/PostgreSQL, MQ/KAFKA, Docker, Jenkins, Elasticsearch, Drools, Github Action, OpenMP, Trino(AWS Athena), Camunda, Flink, Spring StateMachine

Technologies: Algorithm & Data Structure, Distributed Backend System, Cloud, Batch Processing

Awards & Achievements

2022	Certified	Google Cloud Certified Associate Cloud Engineer 
2020	68 th	The 2019 ICPC Asia Amritapuri Doublesite Regional Contest 
2020	61 st	The 2019 ICPC Asia Gwalior-Pune Regional Contest 
2019	Cleared	CodeChef Certified Advanced level exam 