Prakhar Tiwari

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EDUCATION

National Institute of Technology Bhopal — Bhopal, India
Master Of Computer Application — *April 2018 - April 2021*

TECHNICAL SKILLS

Languages: Java, Kotlin
Frameworks: Spring Boot, WebFlux, Reactive Programming
Message/Event Brokers: Kafka, Solace
Databases and Cache: MongoDB, SQL, Redis
Search and Analytics: Elasticsearch
Architectural Patterns: RESTful API, Microservices
Developer and Project Management Tools: Git, Maven, Consul, Drools, Mermaid, Jira, Confluence

EXPERIENCE

Senior Software Engineer — Oct 2024 – Nov 2024
BharatPe — *Gurugram, India*

- Enhanced RTE capabilities to cover **60** and **90** days, allowing **10%** of ineligible lenders to qualify for the program. This transformation contributed to **50%** of revenue by making them eligible and facilitating successful loan processing.

Software Engineer — May 2022 – Oct 2024
Bharti Airtel — *Gurugram, India*

- Architected a distributed campaign management system with **Java and MongoDB**, reducing campaign launch time by **90%**. Automated the process with a one-click, user-friendly UI, eliminating developer dependency. Enabled quick **self-service campaign creation**, enhancing operational efficiency and scalability while streamlining workflows for business users.
- Developed a high-performance **Rule Engine** handling **400 TPS** for **real-time** offer evaluation using **Drools and KieBase Container**, achieving **p99** latency of **50ms** and **p90** latency of **40ms**. Integrated KieBase Workbench for rule updates, enabling **zero-downtime** deployments and agile business logic changes, ensuring scalability and optimized system performance.
- Built a high-throughput, user-facing system handling **700 TPS** to deliver personalized offers, such as **10% discount** or **20 rupee off**, by utilizing a Rule Engine that evaluates user parameters to determine campaign IDs. Improved user engagement by approximately **20%** through, scalable, and targeted offer delivery.
- Engineered an **event-driven** system using **Solace** to handle and track **1 million** qualified and unqulaifed leads across Airtel, managing the full lifecycle from draft to completion.
- Designed a workflow for telemedia, directly contributing to **40%** of **revenue generation** that streamlined the lead qualification process, ensuring **real-time feedback** between systems, improving data accuracy, and driving significant revenue growth.
- Built dedicated **workers** as actions within the workflow, processing over **40,000 leads**. These workers Optimized the system's throughput, achieving a **20%** improvement in lead qualification efficiency and a **15%** conversion rate from unqualified to qualified leads.
- Designed a **distributed scheduling system** handling **40,000 entries per day**, extending **Jobrunner** functionality for better performance and scalability.
- Developed a highly **configurable microservice** for rendering templates on the **Buy New Connection** journey, enabling seamless handling of A/B experiments. Post-migration across all Lines of Business, **boosted** the user experience by displaying **minimal required fields**, resulting in elevated user interaction and achieving daily adoption by **over 1.5 million** users with the new template design.

Software Engineer — Feb 2021 – March 2022
GammaStack- Betting Industry — *Indore, India*

- Led the development of blockchain-integrated betting platforms using **Ethereum**, **smart contracts**, and **Solidity**, achieving a **25%** reduction in operational costs by optimizing **gas fees** through efficient smart contract design.
- Collaborated with front-end teams using **Web3.js** to integrate seamless backend services, elevated the user experience while ensuring secure interactions.