

Huzaifa Bhavnagri

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PROFESSIONAL SUMMARY

Senior Software Engineer / Engineering Lead with 14+ years of experience designing **scalable distributed systems, microservices architectures, and data-driven platforms**. Proven ability to lead **cross-functional teams, drive technical strategy**, and deliver **high-performance enterprise applications**.

Expert in **Java, Spring Boot, Apache Kafka, GraphQL, and AWS**, with strong experience in **system design, real-time data processing, and cloud-native architectures**. Passionate about mentoring engineers, improving system performance, and aligning engineering solutions with business outcomes. Experienced in building **data platforms, analytics pipelines, and AI-enabled systems** in cloud environments.

TECHNICAL SKILLS

Languages & Frameworks: Java, Spring Boot, **Microservices, GraphQL**, REST APIs

Data & Streaming: Apache Kafka, PostgreSQL, MongoDB, MySQL

Cloud & DevOps: **AWS (EC2, S3), Kubernetes**, Docker, CI/CD (TeamCity, Bamboo)

Frontend: Angular, JavaScript

Testing & Quality: JUnit, Mockito, Spock, SonarQube, Coverity

Tools: IntelliJ, Postman, Maven, Gradle

Architecture & Practices: **Distributed Systems, Event-Driven Architecture, System Design**, Agile/Scrum

LEADERSHIP & MANAGEMENT EXPERIENCE

- Led and mentored **engineering teams of 5–10 developers** across multiple projects and releases
- Owned **sprint planning, backlog grooming, and release management** using Agile methodologies
- Defined **system architecture and technology stack decisions**

- Conducted code reviews and enforced best practices, improving **code quality and reducing defects**
- Collaborated with **product managers and stakeholders** to align technical solutions with business needs
- Managed **CI/CD pipelines and release processes**, ensured reliable deployments across QA, staging, and production environments

SYSTEM DESIGN & ARCHITECTURE HIGHLIGHTS

- Designed **event-driven microservices architecture** using **Apache Kafka** for **high-throughput systems, scalable systems**
- Built **scalable multi-threaded processing systems** handling **1000+ transactions/sec**
- Architected **GraphQL-based API layers** for flexible and efficient data access
- Designed **effective-dated and bi-temporal data models** for complex business requirements
- Implemented **horizontally scalable systems** on **Kubernetes and cloud infrastructure**

PROFESSIONAL EXPERIENCE

ZS Associates – Lead Software Engineer - Evanston, IL | Feb 2022 – Present

- Designed and implemented **Star Schema-based data export pipeline using Apache Spark**, transforming plan data into **analytics-ready structures** and loading into **Amazon Redshift** for **AI-driven use cases**
- Built **scalable Spark jobs** to process large datasets and Enabled **AI-driven insights** and **chatbot-based query systems** by designing analytics-ready data models, improving **response efficiency and query performance**
- Designed and implemented a **scalable BI Export pipeline** using **AWS services** to process and export **large-volume datasets** to **Amazon S3** for **Power BI consumption**
- Built **scalable high-throughput data pipelines** enabling efficient data extraction and transformation for analytics
- Designed and implemented **AWS CloudWatch dashboards for centralized observability**, enabling **real-time monitoring** of application health across multiple clients
- Built **configurable, multi-tenant dashboards** with client-based filtering, enabling seamless onboarding for new clients

- Improved incident analysis by tracking **exception types and repeated occurrences** with visual insights (bar/pie charts)
- Led integration of **DataFabric platform** to enable **real-time data synchronization** across multiple enterprise systems
- Designed and implemented **GraphQL-based data access layer**, improving flexibility and reducing backend dependencies
- Designed and architected a **reusable framework for cloning and creating plans**, reducing manual setup effort by **~50%**
- Enabled **dynamic plan creation using metadata-driven architecture** supporting multiple configurations
- Improved **API performance by 40–60%** through query optimization and payload reduction
- Led **end-to-end delivery of key features**, coordinating across engineering, product, and QA teams
- Led and mentored engineers, driving design discussions, improving code quality, and accelerating onboarding of new team members
- Processed and managed **large-scale datasets (millions of records)** across multiple enterprise clients

Wipro Ltd. – Lead Software Engineer – Rosemont, IL | Mar 2019 – Feb 2022

- Developed **Spring Boot microservices** for document processing systems
- Built **multi-threaded applications** using Java ExecutorService
- Designed **Kafka-based system** processing **1000+ files/sec**
- Deployed **scalable applications on AWS EC2**, ensuring reliability and performance
- Implemented **logging, monitoring, and exception handling framework**

Fitch Ratings – Senior Software Engineer – Chicago, IL | Jun 2018 – Mar 2019

- Developed **event-driven alerting system** using **Apache Kafka and MongoDB**
- Built **scalable consumer applications** with **partition-based load distribution**

- Deployed **microservices on Kubernetes** with **monitoring and observability integration**

eClinicalWorks LLC – Senior Software Engineer – Boston, MA | Feb 2014 – Apr 2018

- Developed enterprise healthcare applications using Java and AngularJS
- Built reporting systems using JasperReports
- Implemented concurrency control for financial systems
- Designed **APIs for bulk data processing**, improving efficiency and scalability of data operations

EDUCATION

MSc – Information and Communication Technology – DA-IICT, India

Bachelor of Computer Applications – Somlilit Institute, India

ACHIEVEMENTS

- **Rising Star Award** – eClinicalWorks
- Designed **scalable Kafka-based systems** for **high-volume data processing**

CERTIFICATIONS

AWS Certified Cloud Practitioner

AWS Certified Solutions Architect – Associate (In progress)