Mohammad Anees

Senior Software Engineer
Houston, TX | U.S. Citizen

SUMMARY

Senior Software Engineer with 10 years of experience building and scaling distributed systems for high-traffic marketplaces. Proven track record of leading complex architecture migrations, designing event-driven platforms handling 10,000+ req/s, and delivering systems that directly drive revenue growth. Experienced across the full stack with deep expertise in Node.js, TypeScript, Kafka, Kubernetes, and AWS.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, HTML, CSS/LESS, Ruby, Java, Kotlin

Frameworks & Libraries: Node.js, React, React Native, Angular, Ruby on Rails, Spring Boot

Infrastructure & Tools: AWS, Kubernetes, Kafka, Apache Flink, Redis, DynamoDB, Datadog, Docker

Architecture: Microservices, Event-Driven Architecture, REST APIs, GraphQL, Data Streaming, CI/CD

PROFESSIONAL EXPERIENCE

Senior Software Engineer | **StockX** Nov 2020 - Present

- Core Services engineer owning the systems that power the StockX global marketplace, including order matching, trade execution, and market state management. Lead projects end-to-end from discovery to delivery against company OKRs, mentor engineers on development best practices, and serve as an incident commander for production issues.
- Led the design, implementation, and zero-downtime migration of the core marketplace architecture responsible for all order creation on StockX:
  - Built on event-driven design (Kafka), data-streaming frameworks (Flink), containerized microservices (K8s/Node/Typescript), and AWS infrastructure.
  - Migrated **10,000 req/s** of API traffic without incident while maintaining a **15ms p99 latency SLA**.
  - Achieved an **80% reduction** in bid/ask time-to-market by optimizing caching strategy and Kafka consumer throughput.
  - Reduced an **8+ hour** market recalculation process to **2 hours** while eliminating all trading disruptions and client instability during execution.
  - Enabled the launch of the StockX Express Shipping Initiative, then successfully scaled to support the Verified Seller program. Combined, these two initiatives account for **50% of all StockX orders** today.
- Led the Intelligent Fulfillment initiative, decomposing the automated order reconciliation system to support more complex recovery rules, onboard new inventory sources, and improve operational visibility:
  - Stabilized order recovery to a consistent **60% rate** for seller-cancelled, failed-to-ship, and failed verification seller items, recovering approximately **$100K per week** in net revenue. Replacing a previous process with a recovery rate that fluctuated heavily with market trends.
- Designed and implemented a dynamic matching system enabling business teams to configure custom bid-to-ask matching ranges across a variety of product attributes. The underlying patterns and services became foundational to subsequent platform-wide initiatives.
- Delivered an upgraded fee configuration system that generated **$6.5M in revenue in Q4 2021**, with an estimated **$37.5M impact for 2022**.

- Built an analytical comparison service to de-risk the cutover from legacy to decomposed systems, leveraging custom Datadog metrics, monitors, and dashboards to validate parity before launch.

Full Stack Engineer | **RigUp** Oct 2018 - Nov 2020

- Delivered features across web (Angular/React) and mobile (React Native) spanning work contracting, onboarding, time tracking, invoice submission, and data visualizations. Supported front-end clients through a Ruby on Rails monolith and Node.js microservices.
- Built the mobile location tracking and geofencing infrastructure for RigUp's workforce management platform:
  - Gave customers real-time visibility into contracted worker locations and job site activity.
  - Improved offline tracking fault tolerance to ensure accurate data collection during extended work in low-connectivity regions.
- Served as tech lead on the Growth team, leading the effort to decompose the RigUp marketing site and homegrown CMS out of the web application monolith. Decoupled marketing deployments from the primary web app release cycle, reducing cross-team coordination overhead.

Software Engineer | **General Motors** June 2016 - Oct 2018

- Developed software solutions in the Manufacturing Quality department to improve vehicle quality across GM plants. Primarily worked on front-end systems using Angular (1 through 6), TypeScript, JavaScript, HTML, CSS/LESS, with some .NET and .NET Core.
- Built a shared internal component library to accelerate application development and enforce UI consistency across teams.
- Maintained and improved legacy manufacturing applications, triaging and resolving production issues to minimize plant disruptions.

EDUCATION

B.S. Computer Science | Texas A&M University, College Station, TXMay 2016