Rami Alhussein

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ABOUT

Senior Software Engineer specializing in authentication systems and microservices architecture. Expert in Java/Spring Boot, Apache Kafka, and omnichannel integration, with proven leadership in modernizing authentication platforms serving 10+ million users and architecting scalable microservices solutions at JP Morgan Chase.

EXPERIENCE

Senior Associate Software Engineer   January 2025 – present
JP Morgan Chase   *Jersey City, NJ*

- Led OTP authentication project enabling business users to authenticate through Chase.com, reducing business user turnover and serving 200K-300K users.
- Architected and decomposed monolithic authentication system into 5 microservices (Credential Eligibility, Invocation, Verification, Validation, and Risk Rules Engine) using Java 21, Spring Boot, Apache Kafka, and CQL with multi-threading optimization.
- Spearheaded omnichannel integration connecting digital (chase.com) and non-digital channels (teller, call-center, IVR, branch) through unified OTP orchestrator, enhancing phone number verification security and reducing fraud.
- Pioneered phone ownership verification project and led retail space integration efforts, improving omnichannel customer experience and increasing phone ownership trust scores.
- Initiated QR code authentication innovation using Knock Knock technology and conducted regular knowledge sharing sessions to mentor team members on led projects.
- Implemented contract testing using PactFlow to ensure seamless integration between microservices, enhancing reliability and reducing integration issues.

Associate Software Engineer   October 2021 – December 2024
JP Morgan Chase   *Jersey City, NJ*

- Spearheaded migration from IBM MQ to Apache Kafka, processing 2-3 million daily events using distributed systems architecture, significantly improving microservice performance and data processing efficiency.
- Modernized legacy voice authentication platform by migrating from database insertions to RESTful API-based vendor solution, enabling seamless datacenter migration under tight deadlines using Agile methodology.
- Served as primary contact in 20+ on-call rotations for critical authentication issues, achieving 5-8 minute mitigation times and implementing strict runbooks to prevent user turnover.
- Developed and executed comprehensive performance testing strategies using JMeter and BlazeMeter, identifying and resolving bottlenecks to enhance system responsiveness and reliability.
- Upgraded core call center authentication API from Spring to Spring Boot, achieving 25% performance improvement, resolving memory leaks, enhancing production logging, and reducing authentication handle times through cloud-native optimization.

EDUCATION

Montclair State University   August 2016 – May 2021
Bachelors Degree of Science in Computer Science — AWS Certified Cloud Practitioner (2023-2026)   *Montclair, NJ*

TECHNICAL SKILLS

- **Languages:** Java, JavaScript, TypeScript, Kotlin, Python, C#
- **Frameworks & Libraries:** Spring Boot, React, Node.js, Express.js, JUnit, PactFlow, Cucumber
- **Databases:** Cassandra, PostgreSQL, MongoDB, CQL
- **Cloud & DevOps:** AWS, Jenkins, Cloud Foundry, Docker, CI/CD, Kubernetes
- **Messaging & Tools:** Apache Kafka, IBM MQ, Dynatrace, Splunk, SonarQube, BlazeMeter
- **Methodologies:** Agile, Scrum, TDD, BDD, REST APIs, RESTful Services, Microservices Architecture