

Omar Rahmoun

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☎ (773) 540-9464

📍 Chicago, IL

Profile

Passionate technologist with a proven track record of architecting and delivering scalable distributed systems that drive significant business impact. Experienced in leading cross-functional teams through rapid product development cycles, from designing cloud-native infrastructure to optimizing high-performance data pipelines. Skilled in backend development, system design, and leveraging emerging technologies to solve complex engineering challenges. Known for a “never say no” attitude and hands-on leadership style—equally comfortable mentoring teams, unblocking technical challenges, and diving deep into code. Committed to continuous learning and exploring cutting-edge solutions, including intelligent systems and automation, to enhance processes and create meaningful impact. Driven by the belief that technology should make lives easier, with a focus on delivering solutions that balance innovation with pragmatic business value.

Skills

Leadership & Architecture

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Technical Leadership, Distributed Systems Architecture, Complex System Integration, Cross-Functional Team Leadership, Agile Team Management

AI & Machine Learning

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AWS Bedrock, LLM Integration, Generative AI Applications, Strands SDK, Agent Core, AI-Assisted Development

Backend & Cloud

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Spring Boot, Microservices, Apache Kafka, Event-Driven Architecture, EC2, ECS/EKS, Lambda, RDS, Docker, Kubernetes

Databases & Performance

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PostgreSQL, Database Migration, Query Optimization, Grafana, AWS CloudWatch, Load Testing, Performance Tuning

Development & Collaboration

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Java, Python, JavaScript/TypeScript, CI/CD (Jenkins, GitHub Actions), Git, Agile/Scrum, Code Review, Mentorship

Professional Experience

06/2023 – Present
Chicago, IL

Senior Software Engineer

CCC Intelligent Solution

- Led PostgreSQL migration initiative across 30 team-owned applications, establishing standards, creating comprehensive documentation, and collaborating with cross-functional leads to execute zero-downtime deployments with rigorous load and integration testing
- Owned end-to-end development of multiple new products from concept to production, architecting distributed systems using Kafka-based messaging with 15+ consumers to handle high-volume transaction processing at scale
- Led team of 5 engineers to deliver greenfield product MVP in 2 months under aggressive timelines, compressing sprint cycles from 2 weeks to 1 week to accelerate feedback while maintaining quality
- Introduced generative AI and LLM adoption to team and organization through hands-on training and documentation, accelerating UI development by 25% and establishing new organizational capabilities

- Delivered product that generated \$10M in annual revenue, becoming a core platform with multiple derivative products built on the foundational architecture
- Optimized production Kafka infrastructure during critical performance incidents by reconfiguring partitions and tuning consumer parameters across 15 consumers, eliminating transaction backlogs and enabling scalability for peak market volumes
- Architected scalable, cloud-native distributed systems from requirements gathering through infrastructure configuration, maintaining hands-on involvement to unblock engineering teams and ensure production-quality delivery
- Collaborated directly with account managers, product leadership, and customers to align technical solutions with business opportunities and drive continuous product improvement
- Championed team collaboration and mentorship, fostering a culture of technical excellence and customer obsession to align with business goals

02/2022 – 06/2023
Chicago, IL

Level 2 Software Engineer

CCC Information Services

- Designed and fully integrated end-to-end systems to address complex business challenges, including building pipelines for seamless cloud deployment
- Supported the entire lifecycle of developed systems by identifying and implementing innovative improvements in collaboration with customers
- Delivered three unplanned, high-impact products within the first year, which became key revenue drivers and integral microservices for system integration
- Mentored Associate Engineers, conducted thorough code reviews, and fostered a culture of technical excellence within the team
- Cultivated strong customer relationships by deeply understanding their business and technical needs, driving customer-focused innovation
- Enhanced the performance of a legacy system, achieving a 12% efficiency improvement and enabling its repurposing for new applications

08/2020 – 03/2022
Chicago, IL

Associate Software Engineer

CCC Information Services

- Focused on full-stack development, building and enhancing applications using Spring to create RESTful APIs and Vue.js for front-end interfaces
- Led cloud migration initiatives for legacy WebLogic applications, emphasizing containerization with Docker and deployment on Kubernetes
- Delivered responsive front-end solutions optimized for both mobile and desktop platforms
- Collaborated closely with business stakeholders to understand product requirements and partnered with P&T teams to implement and deploy technical solutions
- Designed and optimized relational databases to ensure data integrity and application efficiency
- Provided on-call support to address NOC-reported issues, resolving front-end and back-end challenges promptly
- Implemented algorithmic optimizations to enhance application performance and scalability
- Successfully managed multiple projects simultaneously while addressing incoming issues and bug reports

Education

09/2017 – 05/2020
Chicago, IL

Computer Science

Northeastern Illinois University

Honors Student GPA: 3.8