

Omar N. Raza

SENIOR SOFTWARE ENGINEER · PRODUCT OWNER

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Work Experience

Salesforce - Autonomous Infrastructure Control Plane, AI Research

Palo Alto, CA

DATA PIPELINE ARCHITECT

May 2024 - Present

- Designed real-time ETL pipelines leveraging Apache Kafka and Spark, processing 10M+ daily events into AWS Redshift data lake with automated data quality validation.
- Architected and developed entity-based compute sharding solution across 300K nodes, enabling intelligent signal pre-processing and selective data ingestion, resulting in 10x performance gains and 85% compute cost reduction.
- Partnered with senior researchers to architect and develop ML-powered MVPs and demos, advancing model training pipelines and reinforcement learning agents for autonomous infrastructure management.

Salesforce - Autonomous Infrastructure Control Plane

San Francisco, CA

PRODUCT OWNER

Feb. 2023 - Present

- Served as distributed systems/infrastructure SME for Fortune 500 partners including Redhat, Google, and FedEx, optimizing their adoption of Salesforce's 1P infrastructure.
- Led technical architecture and product strategy, aligning cross-functional stakeholders from engineering to senior leadership to deliver cohesive product vision and roadmap.
- Managed 8+ engineer team driving product innovation, resulting in expanded portfolio scope and successful project acquisitions.
- Orchestrated 24/7 global support operations across 35+ datacenters, overseeing infrastructure processing 1B+ weekly transactions on 500K machines.
- **Distinguished as youngest Product Owner in EVP organization at age 25.**

Salesforce - Autonomous Infrastructure Control Plane

San Francisco, CA

SENIOR SOFTWARE ENGINEER

Nov. 2022 - Present

- Spearheaded VP/SVP-level technical initiatives, architecting enterprise solutions with organization-wide impact.
- Architected system abstractions to create scalable, reusable products; spearheaded cross-functional adoption across multiple business units.
- Owned full development process from story creation through deployment, independently developing, delivering, and maintaining production-ready features on schedule.
- **Recognized in top 5% of employees for driving cross-cloud customer initiatives.**

Salesforce - Autonomous Infrastructure, Health Pipeline

San Francisco, CA

SOFTWARE ENGINEER

Nov. 2020 - Oct. 2022

- Rearchitected and developed novel distributed processing system, implementing custom async workflows and auto-scaling mechanisms to scale from 5M to 30M daily requests; achieved 50% latency reduction while supporting 6x customer growth.
- Redesigned system architecture for customer data ingestion, scaling report processing from 100K to <1 compute-hour daily (98% reduction) while achieving 100x collection throughput.

Salesforce - Autonomous Infrastructure, Health Pipeline

San Francisco, CA

ASSOCIATE SOFTWARE ENGINEER

July 2019 - Oct. 2020

- Architected distributed agent system for 300K machines, processing 5M+ daily requests and scaling health pipeline to handle 50M+ daily events.
- Engineered high-performance data storage architecture, achieving 5x database scalability and 67% latency reduction through optimized indexing and retrieval patterns while maintaining linear storage complexity.

Salesforce - Marketing Cloud, Google Integrations

Indianapolis, IN

SOFTWARE ENGINEERING INTERN

May. 2018 - Aug. 2018

- **Won the Futureforce Technology Award for outstanding technical talent and aptitude shown during the internship.**

Education

Purdue University

B.S. IN COMPUTER SCIENCE

- Certificate of Entrepreneurship and Innovation

*West Lafayette, IN
Aug. 2015 - May 2019*

Skills

Languages: Python, Go, Java (Spring/Vertix), Puppet, Bash, HTML/CSS/Javascript (JS), Node, Express, React

Technologies: Couchbase, Redis, Kafka, CI/CD (Strata, Jenkins, Artifactory, Github Actions)

Certifications: Certified: AWS Cloud Practitioner (CLF-02) In-Progress: Solutions Architect Associate/Professional (SAA-03/SAP-01), Machine Learning Engineer

Expertise: Microservices, Distributed Systems, Data Pipelining, Infrastructure Management

Philanthropy

Averroes High School

BOARD OF DIRECTORS

*Fremont, CA
June 2023 - Present*

- Reformed the society focusing on software engineering and building network on and off campus.
- Proposed various marketing and network activities to raise awareness.

Ravine Non-Profit Solutions

PRESIDENT AND EXECUTIVE DIRECTOR

*Santa Clara, CA
Aug. 2020 - June 2023*

- Gained expertise in hacking & security areas, especially about internal of operating system based on UNIX and several exploit techniques.
- Participated on several hacking competition and won a good award.
- Conducted periodic security checks on overall IT system as a member of POSTECH CERT.
- Conducted penetration testing commissioned by national agency and corporation.