

AKSHIT SAINI

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SKILLS

Programming Languages: Python (3.x), TypeScript, JavaScript, SQL, Java

Frameworks & Tools: Angular (17+), React, FastAPI, Git, Docker, Nginx (NChan), RabbitMQ, Jasmine

Databases: MongoDB, MySQL, PostgreSQL, Redis (Caching & Pub/Sub)

Cloud / Infrastructure: AWS (EC2, Lambda, ALB, S3, CloudWatch)

Architecture & Design: Microservices, Event-Driven Systems, REST APIs, WebSockets, Pub/Sub Messaging

Core Competencies: DSA (450+ LeetCode), System Design, Distributed Systems, Performance Optimization

EXPERIENCE

Unext Learning Pvt. Ltd.
Software Engineer (SDE 2)

(2023 – Present)

AI-Powered Distributed Ticketing System

- Architected and deployed a **scalable microservices platform on AWS**, handling **100K+ daily requests** with **99.9% uptime** through ALB-based load balancing and auto-scaling via CloudWatch.
- Designed an **event-driven system** using **RabbitMQ** for async task orchestration, increasing throughput by **40%** and decoupling service dependencies.
- Built a **Python-based job orchestrator with Redis Pub/Sub**, reducing task routing latency by **35%** and achieving sub-second response times.
- Integrated **NChan (Nginx pub/sub module)** to enable real-time communication between agents and customers, supporting **10K+ concurrent WebSocket connections** with **50ms message latency**.
- Developed **modular Angular components** (NgRx state management, OnPush detection), improving front-end performance by **25%** and cutting bundle size by **30%**.
- Implemented **Redis-backed token bucket rate limiting**, mitigating DDoS risks by **60%**.
- Optimized PostgreSQL queries via indexing and Redis caching, reducing query latency from **450ms → 120ms**.
- Collaborated with AI and QA teams to deploy **ML-based ticket resolution models**, boosting auto-resolution accuracy from **62% → 89%** and improving customer satisfaction by **45%**.

High-Performance Online Coding Platform

- Built a **low-latency Angular 17 SPA** for **50K+ users**, achieving **95+ Lighthouse scores** via **RxJS** and differential loading optimizations.
- Architected a **distributed code evaluation system** using **Docker sandboxing**, processing **100K+ daily submissions** with **P95 latency of 1.2s** (25% faster).
- Designed and implemented **WebSocket-driven leaderboards** powered by Redis ranking, supporting **5K+ concurrent contests** in real time.
- Created a **shared UI component library** (20+ reusable modules), increasing feature delivery velocity by **30%**.

EDUCATION

Manipal University

(2019 – 2023)

Bachelor of Engineering in Computer and Communication Engineering

CGPA: 8.4 / 10