

MUDREKH GODERYA

Lead Backend & Platform Engineer

Distributed Systems • Real-Time Infrastructure • Edge Computing

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SUMMARY

Backend and platform engineer with 10+ years building distributed, real-time systems and edge-integrated platforms. Core contributor to a distributed system supporting 2,000+ remote systems, 10,000+ field devices, and millions of daily events across industrial and public-sector infrastructure. Experienced in scalable backend services, real-time event processing, WebSocket architectures, media streaming, and resilient edge deployments operating in unreliable network environments.

TECHNICAL SKILLS

Languages: JavaScript, Node.js

Frameworks: Sails.js, Angular, AngularJS

Infrastructure & DevOps: AWS (EC2, S3, ECR, CloudWatch), Docker, GitHub Actions, Linux, Embedded Linux, Automated Deployment Pipelines

Databases & Caching: MongoDB, Redis

Protocols & Streaming: WebSockets, RTSP, ONVIF, REST APIs

Core Areas: Distributed Systems, Real-Time Systems, Edge Computing, Observability, Event Processing, Backend APIs

PROFESSIONAL EXPERIENCE

Lead Software Engineer

EpicIO Technologies (formerly Twenty20 Solutions / PetroCloud) | 2024 – 2026

- Led development of a distributed real-time platform supporting 2,000+ remote systems, 10,000+ devices, 2–3M daily events, and hundreds of GB of media/day
- Owned core backend APIs and edge gateway applications deployed on embedded hardware in remote, intermittently connected environments
- Improved platform reliability through concurrency fixes, load balancing improvements, metrics collection, and Redis-based distributed coordination
- Developed and maintained distributed backend services deployed across AWS-hosted infrastructure using EC2, S3, ECR, and CloudWatch
- Developed automated build and deployment pipelines using GitHub Actions with self-hosted and cloud runners
- Mentored engineers and served as a senior technical contributor guiding platform architecture decisions

Senior Software Engineer

Twenty20 Solutions | 2017 – 2024

- Built and scaled Node.js backend services using Sails.js, MongoDB, and Redis for high-throughput event processing
- Led migration from Memcached to Redis, improving caching reliability and distributed coordination

- Designed resilient store-and-forward communication architecture to prevent data loss during intermittent connectivity
- Developed ONVIF/RTSP camera integrations supporting real-time monitoring and distributed media streaming
- Improved observability through platform-wide metrics collection, performance instrumentation, and device health monitoring
- Led Docker adoption for edge deployments including multi-architecture container builds for embedded Linux environments
- Contributed to frontend modernization from AngularJS to Angular

Software Engineer

PetroCloud | 2014 – 2017

- Core contributor to early platform architecture and backend system development during initial product growth
- Designed and implemented modular ONVIF-compatible camera integration systems supporting extensible video and device capabilities
- Helped architect an extensible edge-computing framework supporting distributed telemetry, automation workflows, and hardware integrations
- Developed backend and edge application components for real-time communication, remote device orchestration, telemetry collection, and data acquisition
- Scaled WebSocket-based event ingestion architecture to support significantly higher real-time event throughput across distributed edge systems
- Architected RTSP-based media ingestion and processing pipelines enabling near real-time alerting and video delivery

EDUCATION

University of Texas at Dallas

B.S., Computer Science

B.S., Physics