

# SAHITYA GANTALA

+1 (716) 247-2600 — sahityagantalausa@gmail.com — linkedin.com

## Professional Summary

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Solutions Architect with 6+ years of experience delivering large-scale, production-grade platforms in regulated and high-availability environments (ex-Deloitte). Proven technical leader specializing in backend systems, API-driven architectures, cloud-native platforms, and data-intensive services. Extensive experience modernizing legacy monolithic systems into resilient microservices, building low-latency APIs, and partnering cross-functionally with product, data, and analytics teams to deliver secure, scalable, and business-critical solutions.

## Technical Skills

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- **Languages & Backend:** SQL (Expert), Python, REST APIs, JSON, Event-driven Processing
- **Architecture & Design:** Microservices, Service-Oriented Architecture (SOA), API Design, Domain-Driven Design (DDD)
- **Cloud & Platforms:** Google Cloud Platform (GCP), AWS, Databricks (Unity Catalog, Medallion Architecture)
- **Databases & Caching:** PostgreSQL, Transactional Datastores, In-memory Processing
- **Infrastructure:** Kubernetes (K8s), Containerization, CI/CD Pipelines
- **Reliability & Operations:** Observability, Telemetry, Monitoring, Alerting, SLA/SLO Design
- **Security & Governance:** IAM, Entitlements, Access Control, Data Governance, Compliance
- **Ways of Working:** Agile/Scrum, Technical Mentorship, Cross-Functional Leadership

## Experience

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### Deloitte

Aug 2021 – Aug 2024

*Senior Software Engineer*

- Led end-to-end modernization of a large monolithic enterprise platform into a scalable microservices architecture, serving as technical lead across design, implementation, and rollout.
- Defined system architecture across Entitlements, Access Control (EAC), Telemetry, and Licensing domains, enabling secure, policy-driven decision-making across platforms.
- Designed and implemented low-latency, high-availability backend APIs deployed on Kubernetes, ensuring service isolation and eliminating cross-domain failure propagation.
- Built and operated Layer 7 traffic management and API routing strategies, achieving 99.9% uptime for mission-critical services.
- Orchestrated a zero-downtime migration of 400TB+ of historical data to GCP and Databricks within 48 hours using optimized Python pipelines and in-memory processing.
- Partnered with data engineers, analysts, and product managers to deliver analytics-ready platforms supporting experimentation, policy lifecycle management, and ML-driven insights.
- Improved platform performance by 40%+ through query optimization, data replication strategies, and stabilization of production data boards.
- Established observability standards by implementing telemetry pipelines, monitoring dashboards, and automated alerting to proactively detect and resolve system issues.
- Engineered secure, encrypted domain-level data models for sensitive licensing and compliance logs, adhering to governance and audit requirements.
- Mentored junior and mid-level engineers through design reviews and code guidance, promoting scalable and maintainable engineering practices.
- Led delivery across 7+ Agile sprints, coordinating execution across engineering, data, and stakeholder teams, resulting in a \$120K contract extension and multi-year engagement renewal.
- Enabled recovery of \$400K in receivables through improved data quality, governance, and operational visibility.

### Genpact

Feb 2019 – Aug 2021

*Data Engineer*

- Developed and maintained backend data services and pipelines supporting high-volume, regulated financial workflows.

- Built secure, entitlement-aware data access layers to ensure compliance with internal risk, privacy, and audit requirements.
- Designed and optimized complex SQL queries and transactional data models, reducing reporting latency and improving system throughput.
- Collaborated with application engineers, risk teams, and business stakeholders to deliver reliable, production-grade solutions.
- Supported legacy system modernization initiatives by decoupling tightly coupled components and improving service boundaries.

## Education

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**State university of newyork at Buffalo**, Buffalo, Ny  
*Master of Professional Sciences in Data Science and Applications*  
Relevant Coursework: Machine Learning, Statistical Analysis, Data Mining, Big Data Analytics

**Aug 2024 – Dec 2025**  
*GPA: 3.689 / 4.0*